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ABSTRACT

Provided are detailed statistical tables for the fiscal year 1975 National Science Foundation (NSF) survey of expenditures for scientific activities at universities and colleges. The survey included 540 universities and colleges which account for more than 99% of all academic R&D expenditures. In addition to data reported for 1975, selected information for a number of earlier years are included. Items reported include sources of funds, expenditures by fields of science, expenditures by states, and expenditures by institutions. (SL)

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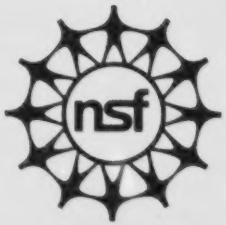
EXPENDITURES FOR SCIENTIFIC ACTIVITIES AT UNIVERSITIES AND COLLEGES FISCAL YEAR 1975

Detailed Statistical Tables

Appendixes B and C



NSF 76-316

SURVEYS OF SCIENCE RESOURCES SERIES
NATIONAL SCIENCE FOUNDATION
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NOTES

- The data presented in these tabulations are based on the National Science Foundation's (NSF) Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1975. An analytical report will be published at a later date.
- The survey universe included 540 universities and colleges which account for more than 99 percent of all academic R&D expenditures. Over 98 percent of these institutions responded with usable questionnaires. Estimates for partially completed questionnaires and imputations for nonrespondents accounted for 0.2 percent of the R&D total. In addition, 22 University-administered Federally Funded Research and Development Centers (FFRDC's) were surveyed to determine their level of R&D performance. (See appendix C for aggregate for the above.)
- R&D expenditure data presented refer to separately budgeted research and development, which include all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution.
- The term "expenditures" differs from the Federal accounting term "obligations," which refers to the commitment of funds by the reporting agency during a fiscal year (July 1 to June 30) regardless of when funds were actually expended.[1]
- The concept of "institutions' own funds," which is one of the sources of R&D funding listed on the questionnaire, includes among several cost components "—unreimbursed indirect costs associated with R&D financed by outside organizations". Several studies, by NSF and a few institutional respondents, have revealed that the unreimbursed indirect costs are not maintained within university accounts. As a result, universities have been reporting unreimbursed indirect costs through varying methods. NSF is presently studying this problem with the objective of developing compatible reporting procedures for future surveys.
- Additional information concerning the survey findings should be addressed to James B. Hoehn, Universities and Nonprofit Studies Group, Division of Science Resources Studies, National Science Foundation, Washington, D.C. 20550 (202-282-7790).

[1] See National Science Foundation, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1974* (NSF 76-305) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office, 1975).

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(DOLLARS IN MILLIONS)

YEAR	TOTAL R&D PERFORMANCE	SOURCE OF FUNDS				
		FEDERAL GOVERNMENT	STATE & LOCAL GOVERNMENT	INDUSTRY	OTHER NONPROFIT INSTITUTIONS	INSTITUTIONS' OWN FUNDS
1953	255	[illegible]	37	13	26	35
1954	290	160	42	[illegible]	28	38
1955	312	[illegible]	[illegible]	[illegible]	30	41
1956	[illegible]	[illegible]	53	[illegible]	34	43
1957	[illegible]	[illegible]	[illegible]	[illegible]	38	49
1958	[illegible]	[illegible]	68	[illegible]	42	53
1959	526	306	[illegible]	[illegible]	47	58
1960	606	405	85	40	52	64
1961	763	[illegible]	95	40	58	70
1962	904	[illegible]	109	40	66	79
1963	1,091	[illegible]	118	41	73	89
1964	1,275	917	132	40	83	103
1965	1,474	1,073	143	41	93	124
1966	1,715	1,261	156	42	108	148
1967	1,921	[illegible]	164	48	119	181
1968	2,149	1,572	172	55	131	218
1969	2,225	1,600	197	60	145	223
1970	2,335	1,647	219	62	166	243
1971	2,500	1,724	255	70	177	274
1972	2,677	[illegible]	270	75	187	306
1973	2,940	2,038	293	85	203	319
1974	3,017	2,032	327	96	218	344
1975	3,393	2,244	351	112	256	390

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-2. R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY YEAR AND CHARACTER OF WORK: FISCAL YEARS 1953-75

(DOLLARS IN MILLIONS)

YEAR	TOTAL	BASIC RESEARCH		APPLIED RESEARCH		DEVELOPMENT	
		AMOUNT	PERCENT OF TOTAL	AMOUNT	PERCENT OF TOTAL	AMOUNT	PERCENT OF TOTAL
1953	255	110	43.1	130	51.1	15	5.9
1954	290	136	46.9	137	47.2	17	5.9
1955	312	159	51.0	136	43.6	17	5.4
1956	372	200	53.8	147	39.5	25	6.7
1957	410	240	58.8	145	35.4	25	6.1
1958	456	281	61.6	148	32.5	27	5.9
1959	526	343	65.2	155	29.5	28	5.3
1960	646	433	67.0	179	27.7	34	5.3
1961	763	536	70.2	192	25.2	35	4.6
1962	904	659	72.9	205	22.7	40	4.4
1963	1,081	814	75.3	227	21.0	40	3.7
1964	1,275	1,003	78.7	232	18.2	40	3.1
1965	1,474	1,138	77.2	279	18.9	57	3.9
1966	1,715	1,303	76.0	328	19.1	84	4.9
1967	1,921	1,457	75.8	374	19.5	90	4.7
1968	2,149	1,649	76.7	404	18.8	96	4.5
1969	2,225	1,711	76.9	407	18.3	107	4.8
1970	2,335	1,796	76.9	427	18.3	112	4.8
1971	2,500	1,914	76.6	474	19.0	112	4.5
1972	2,677	2,023	75.6	544	20.3	110	4.1
1973	2,940	2,054	69.9	717	24.4	169	5.7
1974	3,017	2,147	71.2	737	24.4	133	4.4
1975	3,393	2,392	70.5	851	25.1	148	4.4

SOURCE NATIONAL SCIENCE FOUNDATION

TABLE B-3. R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY SOURCE OF FUNDS, CHARACTER OF WORK, AND FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER AND FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL R&D EXPENDITURES	1,275,436	1,714,684	2,148,708	2,334,859	2,676,511	2,939,603	3,017,236	3,393,136
SOURCE OF FUNDS:								
FEDERAL GOVERNMENT	917,322	1,261,034	1,572,064	1,647,500	1,838,933	2,038,208	2,032,483	2,283,979
STATE GOVERNMENT	122,496	144,258	161,808	206,907	257,068	280,881	312,726	336,445
LOCAL GOVERNMENT	9,964	11,718	10,387	11,870	12,850	14,510	14,038	15,428
FOUNDATIONS & VOLUNTARY HEALTH AGENCIES	61,411	76,511	95,264	110,391	128,032	131,176	142,366	165,587
INDUSTRY	40,363	42,242	55,253	60,538	75,270	85,242	96,033	111,560
OTHER SOURCES	21,299	31,635	36,122	54,602	58,838	70,331	75,543	90,178
INSTITUTIONS' OWN FUNDS	102,581	147,286	217,810	243,051	305,520	319,255	344,047	389,959
CHARACTER OF WORK:								
BASIC RESEARCH	1,002,980	1,303,114	1,649,616	1,795,864	2,022,185	2,054,060	2,146,801	2,394,411
APPLIED RESEARCH	231,852	328,276	403,643	426,714	544,178	717,046	737,038	850,632
DEVELOPMENT	40,604	83,294	95,449	112,281	110,148	168,497	133,397	148,093
FIELD OF SCIENCE:								
ENGINEERING(TOTAL)	161,572	259,176	309,137	318,836	347,341	383,557	346,217	380,522
PHYSICAL SCIENCES(TOTAL)	216,989	286,707	319,739	307,310	329,900	330,437	333,359	350,340
ASTRONOMY	15,571	22,676	24,103	18,597	21,974	24,114	24,427	26,610
CHEMISTRY	70,022	87,935	104,695	102,002	110,015	114,136	116,099	121,337
PHYSICS	119,578	159,135	172,660	161,921	161,853	167,804	169,225	173,290
OTHER PHYSICAL SCIENCES, NEC.	11,818	16,941	18,281	24,790	36,058	24,383	23,608	29,103
ENVIRONMENTAL SCIENCES(TOTAL)	54,814	68,019	120,463	125,315	192,331	209,648	234,989	255,033
MATHEMATICAL SCIENCES(TOTAL)	32,666	42,489	57,621	72,413	70,536	74,693	76,676	84,931
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	NA	NA	NA	NA	NA	36,955	37,544	39,609
COMPUTER SCIENCES	NA	NA	NA	NA	NA	37,738	39,132	45,322
LIFE SCIENCES(TOTAL)	681,594	872,336	1,037,031	1,194,249	1,355,601	1,529,290	1,626,020	1,895,008
BIOLOGICAL SCIENCES	315,471	422,483	490,607	547,193	661,239	557,497	509,611	604,251
AGRICULTURAL SCIENCES	(1)	(1)	(1)	(1)	2/ 231,057	2/ 275,552	346,209	381,953
MEDICAL SCIENCES	320,086	389,618	477,346	549,121	604,987	645,688	712,787	837,130
OTHER LIFE SCIENCES, NEC.	46,037	60,235	69,078	97,935	65,318	50,553	57,413	71,674
PSYCHOLOGY(TOTAL)	31,904	40,143	59,286	59,250	70,400	73,858	74,328	79,880
SOCIAL SCIENCES(TOTAL)	81,539	109,279	167,986	168,669	206,344	232,185	239,950	249,929
ECONOMICS	24,068	31,695	35,017	38,616	46,586	47,807	47,989	56,112
POLITICAL SCIENCE	6,876	8,979	20,742	19,273	21,771	25,523	26,292	28,694
SOCIOLOGY	14,664	20,000	38,587	44,383	59,475	61,523	63,674	68,713
OTHER SOCIAL SCIENCES, NEC.	35,931	48,605	73,640	66,397	78,512	97,332	101,995	96,410
OTHER SCIENCES, NEC. (TOTAL)	14,358	36,535	77,445	88,817	107,058	105,935	85,697	97,493

1 Not separately available, included in Biological sciences.

2 Estimated, based on data collected in 1974.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-4.

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY SOURCE OF FUNDS, CHARACTER OF WORK, FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER AND FIELD	TOTAL			CONTROL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
TOTAL R&D EXPENDITURES	3,017,236	3,393,136	12.5%	1,912,444	2,180,005	14.0%	1,104,792	1,213,131	9.8%
SOURCE OF FUNDS:									
FEDERAL GOVERNMENT	2,032,483	2,283,979	12.4	1,174,022	1,340,782	14.2	858,461	943,198	9.9
STATE GOVERNMENT	312,726	336,445	7.6	283,860	308,925	8.8	28,866	27,520	-4.7
LOCAL GOVERNMENT	14,038	15,428	9.9	8,967	9,938	11.1	5,071	5,490	7.9
FOUNDATIONS & VOLUNTARY HEALTH AGENCIES	142,366	165,587	16.3	61,861	76,365	23.4	80,505	89,222	10.8
INDUSTRY	96,033	111,560	16.2	58,475	70,157	20.0	37,558	41,403	10.2
ALL OTHER OUTSIDE SOURCES	73,543	90,178	22.6	44,315	53,532	20.8	31,228	36,646	17.3
INSTITUTIONS' OWN FUNDS	344,047	389,959	13.3	278,924	320,287	14.8	62,123	69,672	7.0
CHARACTER OF WORK:									
BASIC RESEARCH	2,146,801	2,394,411	11.5	1,242,913	1,402,632	12.8	903,869	992,179	9.8
APPLIED RESEARCH	737,038	850,632	15.4	566,701	650,224	15.8	170,337	194,408	14.1
DEVELOPMENT	133,397	148,093	11.0	102,811	121,549	18.2	30,586	26,544	-13.2
FIELD OF SCIENCE:									
ENGINEERING (TOTAL)	346,217	380,522	9.9	213,226	236,229	8.2	127,991	144,293	12.7
PHYSICAL SCIENCES (TOTAL)	333,359	350,340	5.1	187,033	200,547	7.2	146,326	149,793	2.4
ASTRONOMY	24,427	26,610	8.9	14,648	16,720	14.1	9,779	9,890	1.1
CHEMISTRY	116,099	121,327	4.5	68,461	71,292	4.1	47,638	50,035	5.1
PHYSICS	169,225	173,290	2.4	85,181	88,247	3.7	84,044	84,943	1.1
OTHER PHYSICAL SCIENCES, NEC	23,608	29,103	23.3	18,743	24,188	29.1	4,865	4,915	1.0
ENVIRONMENTAL SCIENCES (TOTAL)	234,989	255,033	8.5	174,226	187,822	7.8	60,763	67,211	10.6
MATHEMATICAL SCIENCES (TOTAL)	76,676	84,531	10.8	43,856	48,354	10.3	32,820	36,577	11.4
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	37,544	39,609	5.5	22,353	22,562	.9	15,191	17,047	12.2
COMPUTER SCIENCES	39,132	45,322	15.8	21,503	25,792	19.9	17,629	19,530	10.8
LIFE SCIENCES (TOTAL)	1,626,020	1,895,008	16.5	1,018,775	1,205,138	18.3	607,245	689,870	13.6
BIOLOGICAL SCIENCES	509,611	604,251	18.6	276,277	337,452	22.1	233,334	266,799	14.3
AGRICULTURAL	346,209	381,953	10.3	327,250	361,581	10.5	18,959	20,372	7.5
MEDICAL	712,787	837,130	17.4	389,733	474,224	21.7	325,054	362,906	12.3
OTHER LIFE SCIENCES, NEC	57,413	71,674	24.8	25,515	31,881	25.0	31,898	39,793	24.8
PSYCHOLOGY (TOTAL)	74,328	79,880	7.5	48,799	55,393	13.5	25,529	24,487	-4.1
SOCIAL SCIENCES (TOTAL)	239,950	249,929	4.2	162,327	174,619	7.7	77,623	75,110	-3.2
ECONOMICS	47,989	56,112	16.9	33,866	40,911	20.8	14,123	15,201	7.6
POLITICAL SCIENCE	26,292	28,694	9.1	18,323	19,051	4.0	7,969	9,643	21.0
SOCIOLOGY	63,674	68,713	7.9	45,644	47,887	4.9	18,030	20,826	15.5
OTHER SOCIAL SCIENCES, NEC	101,995	96,410	-5.5	64,494	66,970	3.8	37,501	29,440	-21.5
OTHER SCIENCES, NEC	85,697	97,493	13.8	59,202	71,703	21.1	26,495	25,790	-2.7

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-5. R&D EXPENDITURES IN DOCTORATE GRANTING UNIVERSITIES AND COLLEGES, BY SOURCE OF FUNDS, CHARACTER OF WORK, AND FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER AND FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL R&D EXPENDITURES	$1,249,610	$1,672,801	$2,092,214	$2,286,182	$2,614,642	$2,864,781	$2,943,110	$3,318,582
SOURCE OF FUNDS:								
FEDERAL GOVERNMENT	893,747	1,230,847	1,532,312	1,615,276	1,798,686	1,991,045	1,985,597	2,233,019
STATE GOVERNMENT	120,016	141,373	158,572	202,769	240,541	269,374	301,163	330,374
LOCAL GOVERNMENT	9,762	11,514	10,047	11,428	11,821	13,725	13,242	14,819
FOUNDATIONS & VOLUNTARY HEALTH AGENCIES	60,017	74,531	91,036	106,742	124,816	127,442	138,659	160,534
INDUSTRY	39,546	40,249	53,116	58,479	73,863	83,055	93,861	108,693
OTHER SOURCES	21,018	30,762	35,277	53,900	57,278	68,587	73,735	88,475
INSTITUTIONS' OWN FUNDS	100,504	143,525	211,854	237,588	298,637	311,553	336,853	382,668
CHARACTER OF WORK:								
BASIC RESEARCH	982,671	1,277,690	1,617,277	1,768,569	1,987,857	2,022,593	2,108,300	2,350,340
APPLIED RESEARCH	227,157	321,872	388,854	413,862	523,873	683,271	710,652	828,533
DEVELOPMENT	39,782	73,239	86,083	103,751	102,912	158,917	124,158	139,709
FIELD OF SCIENCE:								
ENGINEERING(TOTAL)	157,850	249,676	300,526	311,487	341,121	378,633	343,281	376,731
PHYSICAL SCIENCES(TOTAL)	213,677	283,713	307,226	297,767	320,300	317,920	321,816	338,088
ASTRONOMY	15,412	22,397	23,803	18,356	21,756	23,853	24,181	26,397
CHEMISTRY	71,947	84,698	97,609	97,303	105,656	108,506	110,783	115,121
PHYSICS	112,533	159,833	168,343	158,182	157,414	162,977	165,223	169,116
OTHER PHYSICAL SCIENCES, NEC	13,770	16,735	17,471	23,926	35,474	22,584	21,629	27,454
ENVIRONMENTAL SCIENCES(TOTAL)	49,369	62,755	114,970	121,634	187,242	203,276	227,906	246,740
MATHEMATICAL SCIENCES(TOTAL)	31,260	41,750	55,608	70,389	68,710	72,567	74,832	82,174
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	NA	NA	NA	NA	NA	35,457	36,523	37,957
COMPUTER SCIENCES	NA	NA	NA	NA	NA	37,110	38,309	44,217
LIFE SCIENCES(TOTAL)	679,888	866,960	1,021,373	1,181,772	1,332,063	1,506,279	1,600,244	1,875,501
BIOLOGICAL SCIENCES	330,438	418,624	477,614	537,253	443,104	547,824	499,793	593,895
AGRICULTURAL SCIENCES	(1)	(1)	(1)	(1)	2/ 229,340	2/ 273,414	334,535	375,507
MEDICAL SCIENCES	295,486	405,571	475,612	547,083	595,163	635,897	710,577	835,493
OTHER LIFE SCIENCES, NEC	53,964	62,765	68,147	97,436	64,456	49,144	55,339	70,606
PSYCHOLOGY	29,007	35,174	53,881	56,280	67,115	70,179	70,234	73,925
SOCIAL SCIENCES(TOTAL)	74,523	98,901	159,607	161,627	194,974	214,183	222,414	232,570
ECONOMICS	16,116	21,320	33,968	37,709	45,461	45,950	46,445	54,192
POLITICAL SCIENCE	9,262	12,280	20,042	18,362	20,944	24,330	25,590	27,511
SOCIOLOGY	17,070	22,696	36,889	43,157	53,253	52,520	55,810	62,036
OTHER SOCIAL SCIENCES, NEC.	31,045	42,605	68,708	62,399	75,316	91,383	94,569	88,831
OTHER SCIENCES, NEC. (TOTAL)	14,036	33,872	79,023	85,226	103,117	101,744	82,383	92,853

1 Not separately available, included in Biological Sciences

2 Estimated, based on data collected in 1974

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-6.

R&D EXPENDITURES IN DOCTORATE GRANTING UNIVERSITIES AND COLLEGES, BY SOURCE OF FUNDS, CHARACTER OF WORK, FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER AND FIELD	TOTAL			CONTROL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
TOTAL R&D EXPENDITURES	2,943,110	3,318,582	12.8%	1,859,262	2,126,301	14.4%	1,083,848	1,192,281	10.0%
SOURCE OF FUNDS:									
FEDERAL GOVERNMENT	1,985,597	2,235,019	12.5	1,140,471	1,302,350	14.2	845,126	930,669	10.1
STATE GOVERNMENT	301,163	330,374	9.7	274,969	303,345	10.3	26,194	27,029	3.2
LOCAL GOVERNMENT	13,242	14,819	11.9	8,447	9,410	11.4	4,795	5,409	12.8
FOUNDATIONS & VOLUNTARY HEALTH AGENCIES	138,659	160,534	15.8	60,442	74,541	23.3	78,217	85,993	9.9
INDUSTRY	93,861	108,693	15.8	56,914	68,200	19.8	36,947	40,493	9.6
ALL OTHER OUTSIDE SOURCES	73,735	88,475	20.0	43,078	52,809	22.6	30,657	35,666	16.3
INSTITUTIONS' OWN FUNDS	336,853	362,668	13.6	274,941	315,646	14.8	61,912	67,022	8.3
CHARACTER OF WORK:									
BASIC RESEARCH	2,108,300	2,350,340	11.5	1,217,668	1,371,491	12.6	890,632	978,849	9.9
APPLIED RESEARCH	710,652	828,533	16.6	545,356	638,445	17.1	165,296	190,088	15.0
DEVELOPMENT	124,158	139,709	12.5	96,238	116,365	20.9	27,920	23,344	-16.4
FIELD OF SCIENCE:									
ENGINEERING (TOTAL)	349,281	376,731	9.7	216,315	233,400	7.9	126,966	143,331	12.9
PHYSICAL SCIENCES (TOTAL)	321,816	338,086	5.1	181,461	193,869	6.8	140,355	144,219	2.8
ASTRONOMY	24,181	26,397	9.2	14,583	16,615	13.9	9,598	9,782	1.9
CHEMISTRY	110,783	115,121	3.9	65,236	67,420	3.3	45,547	47,701	4.7
PHYSICS	165,223	169,116	2.4	83,413	85,979	3.1	81,810	83,137	1.6
OTHER PHYSICAL SCIENCES, NEC	21,629	27,454	26.9	18,229	23,855	30.9	3,400	3,599	5.9
ENVIRONMENTAL SCIENCES (TOTAL)	227,906	246,740	8.3	169,423	181,869	7.3	58,473	64,871	10.9
MATHEMATICAL SCIENCES (TOTAL)	74,832	82,174	9.8	42,589	46,666	9.6	32,243	35,508	10.1
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	36,523	37,957	3.9	21,588	21,569	-.1	14,935	16,388	9.7
COMPUTER SCIENCES	38,309	44,217	15.4	21,001	25,097	19.5	17,308	19,120	10.5
LIFE SCIENCES (TOTAL)	1,600,244	1,875,501	17.2	997,850	1,190,037	19.3	602,394	685,464	13.8
BIOLOGICAL SCIENCES	499,793	593,895	18.8	269,475	330,259	22.6	230,318	263,636	14.5
AGRICULTURAL	334,535	375,507	12.2	315,586	355,492	12.6	18,949	20,015	5.6
MEDICAL	710,577	835,493	17.6	388,800	473,193	21.7	321,777	362,300	12.6
OTHER LIFE SCIENCES, NEC	55,339	70,606	27.6	23,989	31,093	29.6	31,350	39,513	26.0
PSYCHOLOGY (TOTAL)	70,234	73,925	5.3	46,083	50,643	9.9	24,151	23,282	-3.6
SOCIAL SCIENCES (TOTAL)	222,414	232,570	4.6	148,793	161,302	8.4	73,621	71,268	-3.2
ECONOMICS	46,445	54,192	16.7	32,740	39,499	20.6	13,705	14,693	7.2
POLITICAL SCIENCE	29,590	27,511	7.5	17,863	18,285	2.4	7,727	9,226	19.4
SOCIOLOGY	55,810	62,036	11.2	38,693	41,820	3.1	17,117	20,216	18.1
OTHER SOCIAL SCIENCES, NEC	94,569	88,831	-6.1	59,497	61,698	3.7	35,072	27,133	-22.6
OTHER SCIENCES, NEC	82,383	92,853	12.7	56,718	68,515	20.8	25,645	24,338	-5.1

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-7.

FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY CHARACTER OF WORK, AND FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

CHARACTER AND FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL	$917,322	$1,261,034	$1,572,064	$1,647,500	$1,838,933	$2,038,208	$2,032,483	$2,283,979
CHARACTER OF WORK:								
BASIC RESEARCH	766,225	1,008,805	1,250,782	1,296,120	1,420,198	1,455,443	1,522,164	1,690,504
APPLIED RESEARCH	128,405	193,515	253,577	267,651	338,425	462,437	439,215	515,849
DEVELOPMENT	22,692	58,714	67,705	83,729	80,310	120,328	71,104	77,626
FIELD OF SCIENCE:								
ENGINEERING(TOTAL)	126,962	209,248	246,191	245,888	259,058	287,094	239,521	259,524
PHYSICAL SCIENCES(TOTAL)	187,457	247,603	273,048	257,822	267,392	270,384	269,783	284,664
ASTRONOMY	13,651	20,123	21,079	15,516	16,854	17,697	17,101	19,524
CHEMISTRY	55,410	68,955	82,668	78,942	84,582	86,862	88,692	92,721
PHYSICS	109,938	146,058	156,241	144,306	139,629	146,224	146,513	149,879
OTHER PHYSICAL SCIENCES, NEC.	8,458	12,467	13,060	19,058	26,327	19,601	17,477	22,540
ENVIRONMENTAL SCIENCES(TOTAL)	44,891	54,325	88,691	88,127	142,110	157,627	168.298	180,566
MATHEMATICAL SCIENCES(TOTAL)	28,128	34,394	45,610	54,338	53,207	55,487	57,974	64,868
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	NA	NA	NA	NA	NA	28,557	29,313	31,120
COMPUTER SCIENCES	NA	NA	NA	NA	NA	26,930	28,661	33,748
LIFE SCIENCES(TOTAL)	455,014	595,301	725,017	814,417	884,212	1,014,279	1,051,617	1,237,497
BIOLOGICAL SCIENCES	176,933	252,371	306,471	334,851	319,625	398,924	365,171	432,265
AGRICULTURAL SCIENCES	(1)	(1)	(1)	(1)	2/ 80,228	2/ 93,854	100,952	112,175
MEDICAL SCIENCES	256,874	312,801	381,936	431,656	448,805	485,962	543,467	641,507
OTHER LIFE SCIENCES, NEC.	21,207	30,129	36,610	47,910	35,554	35,539	42,027	51,550
PSYCHOLOGY(TOTAL)	27,572	34,393	48,547	47,263	54,865	58,649	58,554	61,193
SOCIAL SCIENCES(TOTAL)	42,147	61,914	100,846	94,655	113,935	132,471	136,172	139,785
ECONOMICS	10,565	15,520	17,537	17,688	20,940	22,776	22,224	27,081
POLITICAL SCIENCE	3,127	4,593	10,444	7,920	8,592	10,362	11,372	11,953
SOCIOLOGY	8,739	12,837	26,095	26,220	35,694	40,487	41,249	45,083
OTHER SOCIAL SCIENCES, NEC.	19,716	28,964	46,770	42,827	48,709	58,846	61,327	55,668
OTHER SCIENCES, NEC. (TOTAL)	5,151	23,856	44,144	44,990	64,154	62,217	50,564	55,882

1 Not separately available, included in Biological sciences.

2 Estimated, based on data collected in 1974.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-8.

FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY CHARACTER OF WORK, FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

CHARACTER AND FIELD	TOTAL			CONTROL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
TOTAL	2,032,483	2,283,979	12.4%	1,174,022	1,340,781	14.2%	858,461	943,198	9.9%
CHARACTER OF WORK:									
BASIC RESEARCH	1,522,164	1,690,504	11.1	812,711	916,155	12.7	709,453	774,349	9.1
APPLIED RESEARCH	439,215	515,849	17.4	312,599	367,216	17.5	126,616	148,633	17.3
DEVELOPMENT	71,104	77,626	9.2	48,712	57,410	17.7	22,392	20,316	-9.3
FIELD OF SCIENCE:									
ENGINEERING (TOTAL)	239,521	259,524	8.4	137,715	146,419	6.3	101,806	113,083	11.1
PHYSICAL SCIENCES (TOTAL)	269,783	284,664	5.5	145,660	157,091	7.8	124,123	127,573	2.8
ASTRONOMY	17,101	19,524	14.2	9,454	11,512	21.8	7,647	8,012	4.8
CHEMISTRY	88,692	92,721	4.5	51,733	53,476	3.4	36,959	39,245	6.2
PHYSICS	146,513	149,879	2.3	70,452	72,923	3.5	76,061	76,956	1.2
OTHER PHYSICAL SCIENCES, NEC	17,477	22,540	29.0	14,021	19,180	36.8	3,456	3,360	-2.8
ENVIRONMENTAL SCIENCES (TOTAL)	166,298	180,566	7.3	115,608	124,035	7.3	52,690	56,531	7.3
MATHEMATICAL SCIENCES (TOTAL)	57,974	64,868	11.9	29,188	32,152	10.2	28,786	32,716	13.7
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	29,313	31,120	6.2	16,187	16,170	-.1	13,126	14,950	13.9
COMPUTER SCIENCES	28,661	33,748	17.7	13,001	15,982	22.9	15,660	17,766	13.4
LIFE SCIENCES (TOTAL)	1,051,617	1,237,497	17.7	590,859	708,457	19.9	460,758	529,040	14.8
BIOLOGICAL SCIENCES	365,171	432,265	18.4	180,168	220,050	22.1	185,003	212,215	14.7
AGRICULTURAL	100,952	112,175	11.1	95,476	106,012	11.0	5,476	6,163	12.5
MEDICAL	542,467	641,507	18.0	298,885	361,910	21.1	244,382	279,597	14.4
OTHER LIFE SCIENCES, NEC	42,027	51,550	22.7	16,330	20,485	25.4	25,897	31,065	20.0
PSYCHOLOGY (TOTAL)	58,554	61,193	4.5	37,966	42,398	10.8	20,588	19,095	-7.2
SOCIAL SCIENCES (TOTAL)	136,172	139,785	2.7	89,763	90,231	4.1	49,409	49,454	.1
ECONOMICS	22,244	27,081	21.9	14,497	18,222	26.3	7,747	8,859	14.4
POLITICAL SCIENCE	11,372	11,633	5.1	7,291	7,346	.8	4,081	4,607	12.9
SOCIOLOGY	41,249	45,083	9.3	27,808	28,724	3.3	13,441	16,359	21.7
OTHER SOCIAL SCIENCES, NEC	61,327	55,668	-9.2	37,227	36,039	-3.2	24,090	19,629	-18.5
OTHER SCIENCES, NEC	50,564	55,882	10.5	30,243	40,176	32.8	20,321	15,706	-22.7

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-9.

FEDERALLY FINANCED R&D EXPENDITURES IN DOCTORAL GRANTING UNIVERSITIES AND COLLEGES, BY CHARACTER OF WORK, FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

CHARACTER AND FIELD	TOTAL			CONTROL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
TOTAL	1,989,397	2,233,019	12.2	1,140,471	1,302,350	14.2	848,926	930,669	10.1
CHARACTER OF WORK:									
BASIC RESEARCH	1,496,075	1,670,297	11.6	794,679	893,713	12.5	701,396	776,584	10.7
APPLIED RESEARCH	423,646	499,972	18.0	330,595	389,220	17.8	123,051	148,752	18.4
DEVELOPMENT	69,676	72,750	10.4	45,197	54,417	20.4	20,679	18,333	-11.3
FIELD OF SCIENCE:									
ENGINEERING (TOTAL)	257,303	256,657	-0.2	136,193	144,151	5.8	101,110	112,506	11.3
PHYSICAL SCIENCES (TOTAL)	261,533	277,029	5.9	141,030	152,198	7.9	120,703	124,831	3.4
ASTRONOMY	16,901	19,340	14.4	9,404	11,483	21.0	7,497	7,907	5.5
CHEMISTRY	85,434	88,705	3.8	49,632	50,596	1.9	35,802	38,109	6.4
PHYSICS	143,347	146,817	2.4	69,267	71,134	2.6	74,080	75,683	1.8
OTHER PHYSICAL SCIENCES, NEC	16,051	22,167	38.1	13,027	19,035	39.7	3,024	3,132	3.6
ENVIRONMENTAL SCIENCES (TOTAL)	163,656	175,381	7.2	112,947	120,555	6.7	50,709	54,826	8.1
MATHEMATICAL SCIENCES (TOTAL)	56,883	63,096	10.9	28,271	30,971	9.6	28,612	32,125	12.3
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	28,699	30,016	4.6	15,660	15,507	-1.0	13,039	14,509	11.3
COMPUTER SCIENCES	28,184	33,080	17.4	12,611	15,464	22.6	15,573	17,616	13.1
LIFE SCIENCES (TOTAL)	1,036,782	1,222,474	17.9	579,395	696,798	20.3	457,387	525,676	14.9
BIOLOGICAL SCIENCES	358,212	424,647	18.5	175,414	214,707	22.4	182,798	209,940	14.8
AGRICULTURAL	96,158	106,753	11.0	90,662	100,952	11.3	5,476	5,821	6.3
MEDICAL	542,129	640,116	18.1	298,291	361,098	21.1	243,838	279,018	14.4
OTHER LIFE SCIENCES, NEC	40,283	50,958	26.5	15,028	20,041	33.2	25,225	30,897	22.5
PSYCHOLOGY (TOTAL)	55,570	56,886	2.4	35,058	38,580	7.2	19,612	18,306	-6.7
SOCIAL SCIENCES (TOTAL)	144,093	128,310	-3.4	77,116	81,338	5.5	46,977	46,972	-.0
ECONOMICS	21,189	25,671	21.2	13,588	17,122	26.0	7,601	8,549	12.5
POLITICAL SCIENCE	11,003	11,269	2.6	7,045	7,032	-.2	3,958	4,237	7.6
SOCIOLOGY	34,543	39,455	14.2	21,542	23,468	8.9	13,001	15,987	23.0
OTHER SOCIAL SCIENCES, NEC	57,358	51,895	-9.5	34,941	33,716	-3.5	22,417	18,179	-18.9
OTHER SCIENCES, NEC	48,777	53,186	9.0	28,761	37,759	31.3	20,016	15,427	-22.9

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-10. GEOGRAPHIC DISTRIBUTION OF R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

DIVISION AND STATE	1964	1966	1968	1970	1972	1973	1974	1975
UNITED STATES, TOTAL	1,275,436	1,714,684	2,148,708	2,334,859	2,676,511	2,939,603	3,017,236	3,393,136
NEW ENGLAND	149,089	207,635	253,386	285,058	326,824	334,419	293,229	330,513
CONNECTICUT	26,984	30,582	37,565	51,247	54,010	53,586	54,482	62,673
MAINE	2,745	2,771	2,886	3,371	5,985	6,688	7,115	8,759
MASSACHUSETTS	102,390	152,133	187,553	204,010	235,054	244,230	202,921	222,699
NEW HAMPSHIRE	5,143	6,769	6,626	9,004	7,659	8,774	7,273	10,063
RHODE ISLAND	8,930	12,268	14,751	12,424	17,647	13,869	13,565	15,730
VERMONT	2,897	3,112	4,005	5,002	6,469	7,272	7,873	10,589
MIDDLE ATLANTIC	257,065	343,243	438,559	448,778	485,200	530,807	543,061	588,154
NEW JERSEY	36,557	41,587	47,487	44,538	46,475	49,201	54,453	55,805
NEW YORK	149,519	208,011	265,598	274,110	309,110	348,891	344,506	389,842
PENNSYLVANIA	70,989	93,645	125,474	130,130	129,615	132,715	144,102	142,507
EAST NORTH CENTRAL	230,735	304,710	366,484	384,784	428,537	475,282	489,862	551,727
ILLINOIS	77,468	92,051	109,934	103,927	123,525	133,321	142,145	155,094
INDIANA	26,500	38,104	42,654	45,868	51,160	54,881	57,675	63,947
MICHIGAN	52,209	70,426	77,699	86,531	97,837	112,375	108,047	127,939
OHIO	39,294	51,554	68,092	71,965	72,734	77,180	82,398	94,462
WISCONSIN	35,264	52,575	68,105	76,493	83,281	97,525	99,596	110,285
WEST NORTH CENTRAL	96,542	129,703	163,946	193,235	219,686	219,641	236,760	263,966
IOWA	17,780	19,735	24,881	28,219	30,690	36,361	40,026	47,069
KANSAS	13,923	17,849	25,412	28,062	28,043	31,310	33,231	30,687
MINNESOTA	23,368	29,116	32,879	40,393	49,768	54,577	61,185	70,256
MISSOURI	27,264	42,218	53,600	64,091	78,493	65,555	67,391	74,226
NEBRASKA	6,950	8,240	12,969	18,253	19,830	18,316	20,687	24,882
NORTH DAKOTA	3,615	3,762	4,535	4,463	5,884	6,701	7,506	10,111
SOUTH DAKOTA	3,642	8,783	9,670	9,754	6,978	6,821	6,734	6,735
SOUTH ATLANTIC	146,227	200,164	257,337	284,544	322,363	362,635	389,636	447,818
DELAWARE	2,914	3,161	3,904	4,791	4,984	5,760	6,333	6,783
DISTRICT OF COLUMBIA	12,797	19,767	22,142	24,828	25,585	29,489	31,393	35,028
FLORIDA	27,079	36,303	47,958	55,797	65,468	73,428	76,742	87,590
GEORGIA	18,083	28,071	40,383	44,505	49,596	51,755	59,661	68,626
MARYLAND	36,009	43,496	54,348	52,803	63,392	70,843	79,045	89,935
NORTH CAROLINA	27,116	39,805	55,628	59,266	64,119	78,262	76,076	89,188
SOUTH CAROLINA	4,680	6,075	6,840	8,809	9,792	11,113	13,901	18,316
VIRGINIA	14,083	17,857	19,140	25,410	30,470	34,971	39,548	44,825
WEST VIRGINIA	3,466	5,629	6,994	8,335	8,957	7,014	6,937	7,527
EAST SOUTH CENTRAL	44,994	55,848	71,256	79,924	82,214	97,699	105,014	123,385
ALABAMA	11,027	13,387	18,674	19,221	22,116	27,005	31,066	37,918
KENTUCKY	8,706	10,915	12,873	14,245	14,236	16,667	17,334	21,414
MISSISSIPPI	6,687	9,580	12,428	15,310	16,646	19,023	21,999	23,909
TENNESSEE	18,574	21,966	27,281	31,148	29,216	35,004	34,615	40,144
WEST SOUTH CENTRAL	79,258	107,045	147,676	164,581	179,837	203,085	219,294	250,171
ARKANSAS	6,636	8,488	9,919	8,916	11,414	10,241	11,208	12,857
LOUISIANA	18,238	22,195	31,686	35,180	30,267	35,140	35,665	39,218
OKLAHOMA	10,754	13,713	18,915	17,824	19,247	20,028	19,106	21,513
TEXAS	43,630	62,649	87,156	102,661	118,909	137,676	153,315	176,583
MOUNTAIN	69,190	93,274	107,746	134,885	162,871	178,576	186,367	196,941
ARIZONA	9,881	14,392	11,742	16,773	23,911	30,321	31,164	33,539
COLORADO	20,268	26,799	36,291	51,267	59,399	63,997	62,585	65,897
IDAHO	3,847	4,794	4,995	6,543	8,084	8,727	10,600	11,877
MONTANA	3,788	5,528	6,706	8,553	6,756	9,771	9,614	10,831
NEVADA	2,607	4,749	5,494	5,539	6,085	6,449	7,537	7,824
NEW MEXICO	14,603	16,039	19,054	19,846	20,971	16,629	18,075	21,745
UTAH	11,111	16,555	18,286	20,142	32,005	36,004	39,635	37,500
WYOMING	3,085	4,418	5,178	6,222	5,660	6,678	7,157	7,728
PACIFIC	196,505	265,851	333,976	350,023	457,944	525,898	541,387	627,145
ALASKA	4,205	7,109	8,688	9,192	15,524	16,560	19,111	21,139
CALIFORNIA	144,813	198,925	245,959	244,720	323,834	380,220	391,995	458,436
HAWAII	7,341	8,619	12,043	18,014	23,520	24,826	21,143	24,596
OREGON	15,830	20,294	25,227	30,676	32,204	34,768	36,557	39,699
WASHINGTON	24,316	30,904	42,059	47,421	62,862	69,504	72,581	83,275
U. S. TERRITORIES	5,831	7,211	8,342	9,047	11,035	11,561	12,626	13,316

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-11. GEOGRAPHIC DISTRIBUTION OF FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

DIVISION AND STATE	1964	1966	1968	1970	1972	1973	1974	1975
UNITED STATES, TOTAL	917,322	1,261,034	1,572,064	1,647,500	1,838,933	2,038,208	2,032,483	2,283,979
NEW ENGLAND	118,600	182,304	223,491	235,027	259,063	278,521	230,407	255,953
CONNECTICUT	21,258	25,562	30,797	39,578	38,345	38,913	40,203	45,530
MAINE	1,507	1,107	1,385	1,567	3,206	4,423	4,571	4,046
MASSACHUSETTS	81,443	136,518	171,320	173,829	193,257	210,684	162,620	177,790
NEW HAMPSHIRE	4,434	6,312	5,823	7,493	6,648	7,347	5,858	7,699
RHODE ISLAND	7,702	10,059	10,920	8,699	12,852	12,345	11,976	13,608
VERMONT	2,256	2,746	3,246	3,861	4,755	4,809	5,179	7,280
MIDDLE ATLANTIC	198,518	263,590	324,085	323,441	336,347	366,996	375,898	410,162
NEW JERSEY	23,437	29,043	34,135	31,311	27,250	29,567	28,821	32,375
NEW YORK	120,282	162,054	202,292	202,582	220,318	244,365	245,002	275,659
PENNSYLVANIA	54,799	72,493	87,658	89,548	88,779	93,064	102,075	102,128
EAST NORTH CENTRAL	172,334	226,644	261,838	265,824	278,674	315,283	315,137	348,411
ILLINOIS	59,265	72,423	83,762	77,250	83,693	97,765	100,843	109,825
INDIANA	19,306	29,952	33,716	33,375	35,042	39,824	40,329	43,916
MICHIGAN	42,505	54,893	61,439	65,018	67,276	71,087	67,850	78,622
OHIO	29,023	36,458	47,465	50,310	49,890	54,830	52,969	60,597
WISCONSIN	22,235	32,918	35,456	39,871	42,773	51,777	53,146	55,451
WEST NORTH CENTRAL	57,846	78,341	107,004	118,856	123,398	126,730	134,091	148,034
IOWA	11,220	13,130	15,206	17,166	17,727	20,407	21,768	25,139
KANSAS	7,557	10,520	16,639	18,053	17,433	20,050	20,542	16,762
MINNESOTA	17,090	21,985	27,161	27,848	28,504	31,395	35,463	42,065
MISSOURI	14,944	23,517	36,701	43,682	46,961	41,947	42,597	47,876
NEBRASKA	2,997	4,365	5,809	6,625	7,144	7,380	7,610	8,904
NORTH DAKOTA	1,888	1,419	1,572	1,839	2,121	2,541	3,108	4,373
SOUTH DAKOTA	2,150	3,405	3,916	3,643	3,508	3,010	3,003	2,915
SOUTH ATLANTIC	99,208	137,494	178,038	190,141	208,886	235,012	244,242	285,023
DELAWARE	1,566	1,847	2,203	2,914	3,158	3,500	3,566	3,689
DISTRICT OF COLUMBIA	11,241	16,432	18,158	20,629	21,600	23,755	24,630	26,284
FLORIDA	15,775	20,602	28,441	28,634	37,131	41,600	42,370	48,162
GEORGIA	9,911	16,074	20,843	25,231	22,983	24,999	24,977	33,072
MARYLAND	28,712	35,114	42,611	42,044	47,800	54,959	61,228	69,483
NORTH CAROLINA	18,169	27,844	42,737	42,403	46,847	55,079	53,246	62,896
SOUTH CAROLINA	2,640	3,642	3,835	4,631	4,763	4,922	6,294	7,773
VIRGINIA	9,273	12,122	13,176	17,832	18,260	21,333	23,594	28,106
WEST VIRGINIA	1,921	3,817	6,034	5,823	6,344	4,885	4,337	5,558
EAST SOUTH CENTRAL	28,623	37,599	47,019	55,644	53,670	65,853	67,865	78,236
ALABAMA	6,868	8,286	12,087	13,385	15,136	19,655	21,967	26,695
KENTUCKY	4,833	7,145	8,756	9,996	8,192	9,045	8,924	11,488
MISSISSIPPI	3,958	5,630	6,923	9,144	7,766	9,029	9,370	9,533
TENNESSEE	12,964	16,538	19,253	23,119	22,576	28,124	27,604	30,520
WEST SOUTH CENTRAL	49,838	71,432	95,076	96,446	103,997	112,489	120,792	141,753
ARKANSAS	3,358	4,872	5,425	4,609	6,191	4,825	4,346	5,085
LOUISIANA	11,681	14,604	19,802	21,248	13,863	14,448	15,820	17,156
OKLAHOMA	6,603	8,208	12,475	8,747	10,375	11,186	9,765	11,081
TEXAS	28,196	43,748	57,374	61,842	73,568	82,030	90,861	108,431
MOUNTAIN	47,039	62,043	76,696	96,822	115,474	122,406	123,333	135,956
ARIZONA	6,638	8,443	7,345	9,534	11,949	15,818	16,038	17,353
COLORADO	15,863	20,653	29,914	41,027	48,081	50,161	47,253	52,149
IDAHO	1,486	1,898	1,899	2,801	3,697	3,868	4,805	5,005
MONTANA	1,621	2,478	3,722	4,656	3,058	4,127	4,289	5,059
NEVADA	1,150	2,137	2,860	2,860	3,310	3,560	3,047	2,870
NEW MEXICO	11,449	12,497	14,926	16,885	18,275	12,919	14,779	18,095
UTAH	7,833	12,209	13,336	15,656	23,594	27,422	28,496	30,356
WYOMING	999	1,728	2,694	3,403	3,510	4,531	4,626	5,069
PACIFIC	141,839	198,030	254,587	260,784	355,127	410,426	415,761	474,860
ALASKA	2,299	5,027	5,596	5,938	11,204	11,822	10,718	12,047
CALIFORNIA	108,270	151,613	193,368	189,464	263,314	306,894	311,789	360,398
HAWAII	4,177	5,615	6,697	10,413	13,725	15,382	14,065	15,540
OREGON	10,775	14,010	18,152	21,789	21,832	24,007	25,458	27,090
WASHINGTON	16,318	21,765	30,774	33,180	45,052	52,321	53,731	59,785
U. S. TERRITORIES	3,477	3,557	4,230	4,515	4,297	4,492	4,957	5,591

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-12.

GEOGRAPHIC DISTRIBUTION OF R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY SOURCE OF FUNDS: FISCAL YEAR 1970

(DOLLARS IN THOUSANDS)

DIVISION AND STATE	TOTAL	SOURCE OF FUNDS: FEDERAL GOVERNMENT	STATE GOVERNMENT	LOCAL GOVERNMENT	FOUNDATIONS AND HEALTH AGENCIES	INDUSTRY	OTHER	INSTITUTIONS' OWN FUNDS
UNITED STATES TOTAL	3,392,130	2,283,979	336,445	19,479	145,557	111,860	90,176	369,954
NEW ENGLAND	330,513	255,953	7,416	1,479	18,247	10,049	11,592	25,777
CONNECTICUT	62,673	43,530	864	12	3,336	487	1,997	10,447
MAINE	8,759	4,046	627	12	324	57	173	3,003
MASSACHUSETTS	222,699	177,740	4,269	328	13,299	8,586	8,655	9,672
NEW HAMPSHIRE	10,063	7,699	600	0	247	44	333	1,090
RHODE ISLAND	15,730	13,608	147	1,127	430	86	249	83
VERMONT	10,589	7,280	909	0	561	171	185	1,482
MIDDLE ATLANTIC	588,154	410,162	30,755	4,865	40,880	21,269	22,986	57,237
NEW JERSEY	55,805	32,375	5,957	53	1,713	1,773	1,296	12,638
NEW YORK	384,842	275,659	20,280	2,932	32,037	11,103	17,073	29,758
PENNSYLVANIA	142,507	102,128	4,518	880	7,130	8,393	4,617	14,841
EAST NORTH CENTRAL	551,727	348,941	51,522	2,227	27,220	20,449	17,963	83,929
ILLINOIS	155,094	109,828	5,199	1,055	8,127	2,325	4,471	23,894
INDIANA	65,947	42,916	6,058	59	2,806	2,596	558	8,754
MICHIGAN	127,939	78,622	12,165	454	6,816	7,629	3,333	19,120
OHIO	94,402	60,597	9,737	656	6,229	4,869	5,687	6,687
WISCONSIN	110,285	55,491	18,367	13	4,042	3,026	3,912	25,474
WEST NORTH CENTRAL	263,966	148,034	45,966	610	7,443	8,009	8,783	45,101
IOWA	47,069	29,139	8,256	256	683	1,771	1,205	9,559
KANSAS	30,687	16,786	7,020	86	489	760	156	5,434
MINNESOTA	70,256	42,065	11,367	0	2,422	1,668	3,730	7,984
MISSOURI	74,226	47,876	6,428	8	1,913	1,592	2,507	13,892
NEBRASKA	24,882	8,904	9,120	258	559	872	950	4,219
NORTH DAKOTA	10,111	4,373	3,567	0	136	1,081	50	884
SOUTH DAKOTA	6,735	2,915	178	2	61	265	185	3,129
SOUTH ATLANTIC	447,818	285,023	70,661	1,439	19,605	17,800	8,590	44,480
DELAWARE	6,783	3,689	1,087	0	477	855	0	675
DISTRICT OF COLUMBIA	35,028	26,284	2	18	2,736	340	2,225	3,424
FLORIDA	87,590	48,162	5,688	191	2,516	3,083	2,540	25,410
GEORGIA	68,626	33,072	22,502	692	1,314	3,265	732	7,029
MARYLAND	69,935	49,483	7,961	185	6,749	2,873	770	1,932
NORTH CAROLINA	89,188	62,896	16,569	149	3,920	3,517	622	1,495
SOUTH CAROLINA	18,216	7,773	7,670	41	627	646	300	2,049
VIRGINIA	44,825	26,106	7,761	163	1,195	3,095	1,143	3,362
WEST VIRGINIA	7,527	5,558	1,419	0	102	106	258	84
EAST SOUTH CENTRAL	123,385	78,236	21,026	552	3,103	3,112	1,615	15,741
ALABAMA	37,918	26,695	5,978	54	645	1,101	461	2,984
KENTUCKY	21,414	11,488	4,110	24	692	475	277	4,348
MISSISSIPPI	23,909	9,535	7,364	398	419	512	271	5,412
TENNESSEE	40,144	30,520	3,574	76	1,347	1,024	606	2,997
WEST SOUTH CENTRAL	290,171	141,753	39,852	264	14,415	9,017	7,228	37,642
ARKANSAS	12,857	5,085	6,531	0	99	431	211	500
LOUISIANA	39,218	17,156	1,190	12	2,234	821	2,471	15,334
OKLAHOMA	21,513	12,081	5,987	0	221	1,875	137	1,212
TEXAS	176,583	108,431	26,144	252	11,861	5,690	4,409	19,596
MOUNTAIN	196,941	135,956	29,180	1,727	4,959	9,710	4,794	10,615
ARIZONA	33,539	17,353	9,791	427	945	2,039	1,282	1,702
COLORADO	65,897	52,149	5,146	280	2,143	3,506	1,023	2,600
IDAHO	11,677	5,005	5,153	10	19	637	1,062	11
MONTANA	10,831	5,089	890	32	68	794	101	3,887
NEVADA	7,824	2,870	2,512	71	319	864	421	767
NEW MEXICO	21,745	18,095	1,879	65	401	950	51	304
UTAH	37,500	30,336	2,534	0	1,057	1,335	834	1,344
WYOMING	7,728	5,069	1,245	842	7	565	0	0
PACIFIC	627,145	474,860	34,195	2,253	29,635	12,107	6,620	67,475
ALASKA	21,139	12,047	923	50	315	1,740	344	5,620
CALIFORNIA	458,436	360,598	5,232	630	24,292	5,420	1,961	60,483
HAWAII	24,596	15,540	7,808	166	610	160	352	0
OREGON	39,699	27,090	6,489	139	2,190	1,237	1,861	693
WASHINGTON	83,275	59,785	13,723	1,308	2,228	3,550	2,002	679
U.S. TERRITORIES	13,316	5,591	5,632	2	80	42	7	1,962

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-13.

GEOGRAPHIC DISTRIBUTION OF R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY FIELD OF SCIENCE, FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

DIVISION AND STATE	FIELD OF SCIENCE								
	TOTAL	AGRI-CULTURAL	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	3,393,136	384,522	310,340	255,033	84,941	1,895,008	79,883	249,929	97,499
NEW ENGLAND	330,513	48,110	46,819	36,506	13,809	144,422	6,810	24,803	9,204
CONNECTICUT	62,673	4,022	6,137	2,[illegible]	1,385	41,280	1,384	4,674	692
MAINE	8,759	916	246	1,216	8	4,402	160	1,382	274
MASSACHUSETTS	232,699	39,899	29,826	26,400	10,820	80,573	3,674	16,829	4,670
NEW HAMPSHIRE	20,083	911	1,564	885	104	5,972	172	190	484
RHODE ISLAND	15,730	2,506	2,606	5,270	1,283	2,823	469	1,806	537
VERMONT	10,569	156	510	168	8	4,369	444	172	67
MIDDLE ATLANTIC	588,154	58,043	66,078	28,818	16,718	352,058	19,026	59,167	14,196
NEW JERSEY	58,805	4,394	10,613	4,869	2,486	18,669	3,248	6,016	192
NEW YORK	384,842	30,860	28,798	18,097	9,754	256,478	9,343	21,143	8,346
PENNSYLVANIA	144,507	22,784	26,672	5,872	4,478	76,912	6,435	32,011	5,658
EAST NORTH CENTRAL	551,727	71,144	59,149	27,681	13,332	275,243	17,930	61,484	25,644
ILLINOIS	155,094	18,068	19,677	6,337	3,203	81,603	3,902	11,692	9,802
INDIANA	63,747	10,361	9,726	605	1,048	29,786	1,455	3,416	2,270
MICHIGAN	167,959	17,198	7,924	7,211	3,146	91,619	6,928	13,847	3,936
OHIO	94,462	20,328	9,633	11,217	3,178	42,457	1,247	5,883	2,601
WISCONSIN	110,285	6,994	11,887	1[illegible],301	1,964	30,878	1,938	14,276	6,035
WEST NORTH CENTRAL	223,966	22,470	14,695	9,748	2,866	162,035	7,[illegible]93	1[illegible],729	6,178
IOWA	47,069	4,911	4,434	1[illegible]9	1,549	29,820	418	3,870	1,318
KANSAS	31,667	3,053	1,184	9,286	289	16,[illegible]1[illegible]	4,[illegible]99	1,179	1,086
MINNESOTA	70,256	3,999	4,271	820	801	50,957	1,933	5,021	1,967
MISSOURI	74,220	8,839	3,052	2,016	2[illegible]3	34,572	681	2,797	1,643
NEBRASKA	24,882	1,[illegible]10	678	1,499	1[illegible]	19,491	227	954	0
NORTH DAKOTA	10,[illegible]11	1,655	257	822	0	7,[illegible]74	0	286	0
SOUTH DAKOTA	5,733	461	79	806	1	4,179	245	822	560
SOUTH ATLANTIC	447,818	43,712	30,[illegible]91	27,753	15,199	279,243	9,[illegible]12	32,017	13,829
DELAWARE	6,783	2,037	915	1,551	29	1,746	9[illegible]	404	0
DISTRICT OF COLUMBIA	35,018	3,299	2,089	322	3,481	16,205	1,015	4,947	3,670
FLORIDA	87,590	6,521	4,516	10,986	2,771	51,595	1,[illegible]56	3,220	704
GEORGIA	58,[illegible]28	1[illegible],061	4,509	1,742	1,[illegible]13	42,014	807	3,505	572
MARYLAND	83,935	4,349	3,783	5,113	3,066	61,875	932	3,586	1,235
NORTH CAROLINA	83,188	1,710	4,030	4,[illegible]20	1[illegible],[illegible]1[illegible]	60,[illegible]2[illegible]	1,[illegible]24	6,454	5,896
SOUTH CAROLINA	18,[illegible]16	2,988	825	924	57	12,778	2[illegible]	892	4
VIRGINIA	44,[illegible]43	7,891	3,360	2,363	2[illegible]	25,488	4[illegible]	2,[illegible]63	1,748
WEST VIRGINIA	7,927	2,[illegible]57	92	22	1	4,594	21	980	0
EAST SOUTH CENTRAL	122,[illegible]35	10,839	5,0[illegible]	1,961	1,[illegible]65	89,[illegible]29	5,409	6,838	2,492
ALABAMA	37,948	2,[illegible]16	1,[illegible]32	1,[illegible]16	8[illegible]	26,[illegible]85	2,[illegible]95	1,249	222
KENTUCKY	21,[illegible]14	2,871	6[illegible]	66	6[illegible]	13,[illegible]04	6[illegible]	2,[illegible]21	2,[illegible]85
MISSISSIPPI	23,909	1,[illegible]39	823	2[illegible]	318	14,[illegible]67	6[illegible]	1,[illegible]40	[illegible]0
TENNESSEE	40,[illegible]49	4,[illegible]11	2,[illegible]16	[illegible]71	8[illegible]	29,[illegible]79	2,[illegible]40	1,628	[illegible]15
WEST SOUTH CENTRAL	250,[illegible]71	28,[illegible]40	24,[illegible]95	13,[illegible]16	5,[illegible]41	1[illegible],[illegible]67	4,[illegible]96	13,[illegible]22	1[illegible],790
ARKANSAS	12,857	7[illegible]4	[illegible]42	4[illegible]5	0	10,[illegible]10	1	1,[illegible]41	[illegible]4
LOUISIANA	39,[illegible]18	2,[illegible]85	2,[illegible]36	2,[illegible]55	7[illegible]	26,[illegible]63	5[illegible]	2,[illegible]2[illegible]	[illegible]92
OKLAHOMA	[illegible]1,[illegible]13	4,[illegible]26	1,[illegible]28	[illegible]45	2[illegible]	10,[illegible]9[illegible]	3[illegible]	2,[illegible]35	1,[illegible]7[illegible]
TEXAS	178,[illegible]63	21,[illegible]05	20,[illegible]89	10,[illegible]13	4,[illegible]29	1[illegible],[illegible]21	4,[illegible]14	10,[illegible]23	11,[illegible]84
MOUNTAIN	196,[illegible]41	21,[illegible]69	27,[illegible]31	20,[illegible]45	6,[illegible]88	88,[illegible]7[illegible]	4,[illegible]43	16,[illegible]52	9,[illegible]27
ARIZONA	33,[illegible]39	1,[illegible]59	8,[illegible]56	4,118	[illegible]19	12,[illegible]28	1,[illegible]57	2,[illegible]47	[illegible],[illegible]55
COLORADO	65,[illegible]97	12,[illegible]64	10,[illegible]12	2,[illegible]60	1,[illegible]06	28,[illegible]80	2,[illegible]39	6,[illegible]09	[illegible]27
IDAHO	11,877	9[illegible]2	2[illegible]3	[illegible]84	3	7,[illegible]01	1	[illegible]74	1,[illegible]44
MONTANA	13,[illegible]31	2,[illegible]51	9[illegible]	7[illegible]7	9[illegible]	6,[illegible]95	9[illegible]	1,[illegible]69	1[illegible]
NEVADA	7,[illegible]24	1[illegible]0	1[illegible]0	3,[illegible]51	1[illegible]	3,[illegible]9[illegible]	[illegible]41	[illegible]68	[illegible]2
NEW MEXICO	21,[illegible]46	8,[illegible]02	2,[illegible]30	2,[illegible]01	1,[illegible]84	5,867	[illegible]74	1,[illegible]85	[illegible]4
UTAH	37,[illegible]00	7,[illegible]31	3,[illegible]27	4,[illegible]96	1,[illegible]87	17,[illegible]25	[illegible]63	2,[illegible]63	[illegible]16
WYOMING	7,[illegible]28	1[illegible]0	1,[illegible]70	1,[illegible]18	[illegible]5	3,[illegible]19	[illegible]00	[illegible]37	[illegible]
PACIFIC	627,[illegible]45	62,[illegible]51	73,[illegible]12	87,[illegible]33	1[illegible],[illegible]25	381,[illegible]26	12,[illegible]79	36,[illegible]49	13,[illegible]50
ALASKA	21,[illegible]39	2[illegible]1	2,[illegible]45	10,[illegible]25	[illegible]00	5,[illegible]20	0	1,[illegible]40	[illegible]8
CALIFORNIA	4[illegible],[illegible]36	50,[illegible]04	59,[illegible]41	89,[illegible]15	8,[illegible]8[illegible]	240,[illegible]5[illegible]	9,[illegible]78	2[illegible],[illegible]52	6,[illegible]4[illegible]
HAWAII	2[illegible],[illegible]96	1,[illegible]9[illegible]	3,[illegible]15	[illegible],[illegible]0[illegible]	1[illegible]	9,[illegible]32	[illegible]77	1,[illegible]82	1,[illegible]23
OREGON	39,[illegible]99	1,[illegible]56	[illegible],[illegible]2[illegible]	[illegible],[illegible]24	[illegible]73	21,[illegible]74	1,[illegible]04	[illegible],[illegible]39	[illegible]15
WASHINGTON	83,[illegible]75	8,[illegible]96	[illegible],[illegible]0[illegible]	[illegible],[illegible]83	[illegible]37	24,[illegible]35[illegible]	1,[illegible]20	[illegible],[illegible]46	[illegible],[illegible]50
U.S. TERRITORIES	13,[illegible]16	[illegible]3	[illegible]04	[illegible]60	[illegible]	11,[illegible]69	69	[illegible]68	11

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-14.

PERCENT DISTRIBUTION OF R&D EXPENDITURES BY SOURCE OF FUNDS
GROUPED BY UNIVERSITIES AND COLLEGES WITH LARGEST R&D PROGRAMS:
FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY SIZE OF R&D EXPENDITURES	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
TOTAL, ALL INSTITUTIONS	3,893,136	2,283,979	336,445	15,428	165,387	111,560	389,959	90,178
			PERCENT DISTRIBUTION					
TOTAL 1ST 10 INSTS.	21.6	23.5	10.8	11.3	23.2	12.7	20.3	20.6
TOTAL 1ST 20 INSTS.	36.1	39.7	17.5	28.8	41.7	21.1	32.7	38.4
TOTAL 1ST 30 INSTS.	46.8	48.3	38.1	37.9	49.6	35.9	47.4	47.7
TOTAL 1ST 40 INSTS.	55.1	56.5	46.5	4[illegible] 8	59.6	43.7	55.8	54.7
TOTAL 1ST 50 INSTS.	61.9	63.0	60.1	48.2	64.5	51.6	60.2	59.2
TOTAL 1ST 60 INSTS.	67.5	68.5	65.3	54.6	69.3	55.5	67.1	63.4
TOTAL 1ST 70 INSTS.	72.3	72.8	70.9	63.1	72.5	64.3	73.5	69.4
TOTAL 1ST 80 INSTS.	76.6	76.7	76.5	63.4	74.4	67.6	80.8	71.5
TOTAL 1ST 90 INSTS.	80.0	79.7	83.0	63.7	77.4	71.2	82.8	81.0
TOTAL 1ST 100 INSTS.	82.9	82.8	87.5	65.0	79.6	73.3	83.8	83.7
TOTAL 1ST 110 INSTS.	85.3	85.4	88.5	73.6	81.9	77.1	86.3	85.9
TOTAL 1ST 120 INSTS.	87.4	87.6	90.4	74.1	84.6	81.3	88.4	88.1
TOTAL 1ST 130 INSTS.	89.3	89.6	92.1	84.6	86.8	82.3	88.5	89.0
TOTAL 1ST 140 INSTS.	90.9	91.3	93.2	84.7	89.3	84.4	89.5	91.3
TOTAL 1ST 150 INSTS.	92.3	92.6	94.3	89.4	90.6	85.9	91.7	92.4
TOTAL 1ST 160 INSTS.	93.5	93.7	95.6	89.5	91.6	87.0	93.0	94.0
TOTAL 1ST 170 INSTS.	94.4	94.7	96.1	89.3	92.3	89.3	94.2	94.3
TOTAL 1ST 180 INSTS.	95.2	95.5	96.7	89.5	93.5	90.4	95.3	95.2
TOTAL 1ST 190 INSTS.	96.0	96.2	97.2	90.3	93.9	91.7	95.9	95.7
TOTAL 1ST 200 INSTS.	96.3	96.8	97.4	91.5	94.3	94.2	96.2	96.0
TOTAL ALL OTHER INSTS.	3.5	3.2	2.6	8.5	5.7	5.8	3.8	4.0

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-15.

PERCENT DISTRIBUTION OF R&D EXPENDITURES BY FIELD OF SCIENCE GROUPED BY UNIVERSITIES AND COLLEGES WITH LARGEST R&D PROGRAMS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY SIZE OF R&D EXPENDITURES	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
TOTAL, ALL INSTITUTIONS	3,393,136	380,322	350,240	255,033	84,931	1,895,006	79,880	249,929	97,495
				PERCENT DISTRIBUTION					
TOTAL 1ST 10 INSTS.	21.6	23.8	25.6	33.7	22.4	18.0	25.1	24.9	24.0
TOTAL 1ST 20 INSTS.	36.1	33.2	40.7	41.4	38.2	34.6	36.2	37.2	42.7
TOTAL 1ST 30 INSTS.	46.8	45.0	50.0	47.8	44.0	46.5	42.5	47.0	54.2
TOTAL 1ST 40 INSTS.	55.1	50.3	56.2	54.6	52.3	55.9	52.7	54.2	61.0
TOTAL 1ST 50 INSTS.	61.9	58.4	64.4	6	59.9	62.0	55.0	59.2	65.5
TOTAL 1ST 60 INSTS.	67.5	62.6	69.7	69.9	63.2	68.7	58.8	62.6	69.7
TOTAL 1ST 70 INSTS.	72.3	69.5	73.4	77.0	69.9	73.4	60.7	66.4	73.3
TOTAL 1ST 80 INSTS.	76.6	73.6	75.8	79.5	77.9	77.9	67.9	70.8	78.4
TOTAL 1ST 90 INSTS.	80.0	76.7	77.6	81.4	78.8	82.1	69.3	72.8	83.7
TOTAL 1ST 100 INSTS.	82.9	79.2	80.1	82.8	84.6	85.4	72.0	75.2	86.1
TOTAL 1ST 110 INSTS.	85.3	81.4	82.0	84.4	85.0	88.1	74.0	79.1	87.3
TOTAL 1ST 120 INSTS.	87.4	83.6	83.2	85.1	86.5	90.7	74.4	80.5	88.2
TOTAL 1ST 130 INSTS.	89.3	85.9	85.2	88.1	88.0	92.5	75.1	82.4	88.6
TOTAL 1ST 140 INSTS.	90.9	87.8	86.5	88.7	89.2	94.5	76.4	83.1	89.3
TOTAL 1ST 150 INSTS.	92.3	90.6	88.7	89.8	90.1	95.5	78.5	84.2	91.2
TOTAL 1ST 160 INSTS.	93.5	91.3	90.3	91.2	92.0	96.4	79.1	86.9	91.6
TOTAL 1ST 170 INSTS.	94.4	93.8	91.3	93.3	92.4	96.9	82.8	87.6	91.8
TOTAL 1ST 180 INSTS.	95.3	94.8	92.8	94.2	94.5	97.4	84.8	89.5	91.9
TOTAL 1ST 190 INSTS.	96.0	95.6	93.4	94.9	94.9	98.0	87.0	90.6	92.9
TOTAL 1ST 200 INSTS.	96.5	97.1	93.9	95.3	95.8	98.3	87.6	91.4	93.6
TOTAL ALL OTHER INSTS.	3.5	2.9	6.1	4.7	4.2	1.7	12.4	8.6	6.4

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-16.

TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY TOTAL R&D EXPENDITURES (1975)	TOTAL R&D EXPENDITURES				FEDERALLY FINANCED R&D EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	3,393,136	3,017,236	2,939,603	2,676,511	2,283,979	2,032,483	2,038,208	1,838,933
1 UNIV OF WISCONSIN-MADISON	95,436	86,088	84,201	71,673	48,217	47,339	45,783	37,780
2 MASS INST OF TECHNOLOGY	84,668	76,993	125,413	116,306	69,399	62,455	112,652	104,440
3 U OF CAL SAN DIEGO	76,898	67,209	66,789	57,307	69,032	60,904	60,945	52,295
4 UNIVERSITY OF MICHIGAN	74,553	62,880	69,229	67,677	46,671	39,867	45,021	45,427
5 UNIVERSITY OF MINNESOTA	69,655	60,404	53,447	48,368	41,827	35,237	30,800	27,872
6 COLUMBIA UNIV MAIN DIV	68,197	56,465	57,376	51,773	50,852	45,210	46,362	39,975
7 STANFORD UNIVERSITY	66,876	53,950	53,984	51,949	59,640	50,262	50,751	47,118
8 UNIVERSITY OF WASHINGTON	65,947	56,688	53,424	45,091	55,260	49,103	47,205	39,375
9 U OF CAL BERKELEY	65,087	58,294	56,692	45,885	46,648	43,123	42,716	34,995
10 HARVARD UNIVERSITY	64,176	56,207	58,480	63,647	49,667	47,293	47,765	43,144
TOTAL 1ST 10 INSTS.	731,493	637,178	679,035	619,696	537,413	480,793	530,100	472,421
11 CORNELL UNIVERSITY	61,545	56,542	57,453	50,754	36,841	33,269	32,273	30,300
12 UNIVERSITY OF CHICAGO	58,766	52,581	52,181	45,292	45,096	39,126	38,400	34,091
13 U OF CAL LOS ANGELES	57,831	50,016	52,291	44,976	47,326	41,367	44,011	38,067
14 JOHNS HOPKINS UNIVERSITY	56,471	50,924	42,268	38,008	45,787	41,768	35,416	29,870
15 UNIV ILLINOIS URBANA	51,203	48,652	41,810	36,915	32,846	32,454	32,037	24,133
16 U OF CAL SAN FRANCISCO	43,261	33,922	29,109	23,383	36,450	28,118	24,042	19,227
17 UNIV OF TEXAS AT AUSTIN	41,754	36,066	31,386	30,896	23,830	20,266	17,391	21,685
18 YALE UNIVERSITY	41,032	36,576	34,200	35,420	35,255	31,480	29,697	28,810
19 UNIV OF PENNSYLVANIA	41,006	46,421	40,594	38,062	34,762	38,232	31,688	29,555
20 NEW YORK UNIVERSITY	40,976	34,333	37,219	36,766	34,744	25,994	27,081	27,322
TOTAL 1ST 20 INSTS.	1,225,338	1,083,211	1,097,546	1,000,788	907,320	812,867	841,836	755,481
21 U OF CAL DAVIS	40,707	35,214	33,247	26,336	20,373	18,297	17,712	14,236
22 TEXAS A & M UNIVERSITY	39,349	37,209	33,618	30,950	16,180	15,180	15,021	12,398
23 UNIVERSITY OF ROCHESTER	38,848	38,850	38,497	31,008	26,852	28,559	30,135	26,434
24 OHIO STATE UNIVERSITY	38,727	33,590	30,778	28,195	21,116	19,043	19,693	17,839
25 MICHIGAN STATE UNIVERSITY	38,568	32,683	32,534	27,257	24,257	21,253	20,554	16,992
26 UNIVERSITY OF FLORIDA	36,249	30,453	27,254	25,356	14,514	10,118	10,699	9,142
27 PURDUE UNIV ALL CAMPUSES	35,109	30,307	27,315	26,118	20,278	17,830	16,692	14,875
28 UNIVERSITY OF GEORGIA	33,076	30,594	26,310	26,436	10,399	7,947	8,353	8,194
29 UNIVERSITY OF COLORADO	30,825	31,273	34,365	31,435	25,313	25,761	26,774	26,003
30 PENNSYLVANIA STATE UNIV	30,375	32,076	30,286	28,273	16,105	18,174	17,201	15,859
TOTAL 1ST 30 INSTS.	1,567,071	1,415,462	1,411,750	1,276,154	1,102,907	992,629	1,024,670	917,583
31 WASHINGTON UNIV ST LOUIS	30,165	25,923	25,286	21,568	27,101	23,497	22,666	18,793
32 UNIV NC AT CHAPEL HILL	30,136	25,380	24,044	17,138	24,825	22,414	19,930	14,318
33 UNIVERSITY OF ARIZONA	29,761	28,103	27,764	21,946	14,902	14,558	14,409	10,692
34 UNIV OF STHRN CALIFORNIA	29,183	24,624	25,155	18,482	24,921	20,916	21,855	16,183
35 YESHIVA UNIVERSITY	28,502	24,595	24,916	26,600	23,272	20,906	21,571	19,650
36 UNIVERSITY OF MIAMI	28,101	27,491	26,769	24,050	20,319	18,753	18,237	16,162
37	27,446	24,722	24,103	17,204	11,503	10,091	9,379	8,284
38 DUKE UNIVERSITY	26,791	21,208	22,261	24,201	23,365	17,621	19,296	19,535
39 IOWA ST U OF SCI & TECH	26,346	22,452	20,298	19,348	7,235	6,293	6,178	5,529
40 RUTGERS THE STATE UNIV	25,638	26,613	21,939	21,768	10,484	9,683	10,208	9,625
TOTAL 1ST 40 INSTS.	1,869,140	1,666,273	1,654,885	1,481,459	1,291,334	1,157,301	1,188,399	1,056,364
41 N C STATE UNIV AT RALEIGH	25,578	23,879	24,856	18,998	9,490	9,016	11,326	7,773
42 UNIVERSITY OF HAWAII	24,596	21,143	24,846	22,220	15,540	14,065	15,382	13,725
43 UNIV OF MISSOURI COLUMBIA	24,538	23,205	22,495	30,517	8,796	8,524	7,803	14,675
44 COLORADO STATE UNIVERSITY	24,288	24,096	20,451	20,009	17,902	15,623	15,415	15,284
45 OREGON STATE UNIVERSITY	24,181	21,833	20,241	18,864	13,600	12,559	11,680	10,947
46 UNIVERSITY OF UTAH	22,777	25,450	23,469	20,309	20,504	18,976	18,460	15,989
47 CALIFORNIA INST OF TECH	22,398	19,960	18,053	18,275	19,262	17,751	16,603	16,478
48	21,697	18,395	17,963	18,104	17,460	14,985	15,154	13,869
49 UNIV OF MD COLLEGE PARK	21,431	16,619	20,365	18,124	13,380	11,396	12,635	11,315
50 UNIVERSITY OF ALASKA	21,139	19,111	16,560	15,524	12,047	10,718	11,822	11,204
TOTAL 1ST 50 INSTS.	2,101,763	1,878,904	1,864,784	1,680,763	1,439,321	1,290,974	1,324,679	1,187,623

SEE FOOTNOTES AT END OF TABLE.

TABLE B-16.
CONTINUED

TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY TOTAL R&D EXPENDITURES (1975)	TOTAL R&D EXPENDITURES 1975	1974	1973	1972	FEDERALLY FINANCED R&D EXPENDITURES 1975	1974	1973	1972
51 NORTHWESTERN UNIVERSITY	21,097	17,277	16,261	16,284	15,811	13,105	12,809	11,603
52 UNIVERSITY OF IOWA	20,128	17,178	15,386	14,792	17,553	15,057	13,853	11,902
53 PRINCETON UNIVERSITY	19,737	18,943	18,096	17,211	14,918	13,413	13,742	12,743
54 BAYLOR COLLEGE OF MED	19,643	17,172	15,134	13,056	18,116	15,650	13,235	11,560
55 UNIVERSITY OF CONNECTICUT	18,466	15,502	16,381	15,419E	8,819	7,350	7,618	7,772E
56 VIRGINIA POLYTECHNIC INST	18,089	15,012	13,380	11,564	7,547	5,360	5,189	4,366
57 UNIV OF NEBRASKA - LINCLN	18,084	15,161	13,970	15,907	4,460	3,589	3,990	4,038
58 UNIVERSITY OF PITTSBURGH	17,463	14,098	15,048	15,016	14,742	11,728	13,074	12,788
59 CUNY MT SINAI SCH OF MED	17,234	12,552	11,785	11,828	13,492	8,740	8,055	7,945
60 U OF TEX M D ANDERSON HOS	17,216	14,706	13,264	10,797	10,692	9,255	7,962	6,848
TOTAL 1ST 60 INSTS.	2,288,920	2,036,367	2,014,089	1,830,637	1,565,473	1,394,221	1,424,206	1,279,188
61 WOODS HOLE OCNGRPHIC INST	17,196	14,468	14,342	12,701	14,946	12,992	13,370	11,994
62 GEORGIA INSTITUTE OF TECH	17,109	14,133	12,263	12,016	9,184	6,904	6,111	5,893
63 U OF CAL RIVERSIDE	17,024	15,106	13,960	10,759	6,702	6,257	5,606	4,478
64 WASHINGTON STATE UNIV	16,534	15,177	15,402	16,174	4,100	4,236	4,559	4,478
65 TEMPLE UNIVERSITY	16,461	16,164	11,732	15,244	11,272	10,792	7,190	8,492
66 UNIV ALABAMA BIRMINGHAM	16,324	14,332	11,588	9,867	15,134	13,230	10,729	8,838
67 BOSTON UNIVERSITY	15,944	12,048	9,237	8,012	13,935	10,648	8,407	7,225
68 MISSISSIPPI STATE UNIV	15,824	14,506	11,113	10,423	4,099	4,639	4,216	3,810
69 UNIVERSITY OF CINCINNATI	15,473	14,950	12,142	11,871	8,105	6,845	6,903	6,325
70 CARNEGIE-MELLON UNIV	15,443	14,880	14,850	13,211	9,968	8,736	8,783	8,528
TOTAL 1ST 70 INSTS.	2,452,252	2,182,131	2,140,718	1,950,915	1,662,918	1,479,500	1,500,080	1,349,249
71 UNIV OF KENTUCKY ALL CAM	15,269	12,781	12,594	11,559	7,851	5,745	6,248	6,123
72 VANDERBILT UNIVERSITY	15,171	13,659	13,683	12,681	13,341	11,817	11,780	10,736
73 OKLAHOMA STATE UNIVERSITY	15,167	13,297	13,416	13,213	6,216	5,301	6,122	5,741
74 UNIVERSITY OF KANSAS	15,142	18,895	17,925	15,765	10,726	14,535	14,141	11,391
75 KANSAS ST UNIVERSITY	14,961	13,352	12,457	11,453	5,611	5,591	5,517	5,462
76 GEORGE WASHINGTON UNIV	14,557	12,577	12,150	10,749	13,011	11,264	10,810	9,108
77 SUNY BUFFALO	14,391	14,648	13,068	10,738	13,485	13,358	8,139	8,270
78 FLORIDA STATE UNIVERSITY	14,320	11,769	11,324	11,324	8,428	8,999	8,695	8,695
79 UNIVERSITY OF VIRGINIA	14,292	13,005	11,027	9,925	10,816	9,437	8,425	7,503
80 LSU CTR AGR SCI/RUR DEV	13,111	11,385	12,197E	0	521	561	462E	0
TOTAL 1ST 80 INSTS.	2,598,233	2,317,499	2,270,559	2,058,322	1,752,924	1,566,108	1,580,419	1,422,278
81 AUBURN UNIVERSITY	12,049	10,424	9,464	8,912	4,230	3,821	4,078	3,574
82 TULANE UNIVERSITY	12,028	11,315	12,392	10,333E	7,734	7,276	7,983	5,992E
83 UNIV OF MASS AT AMHERST	11,990	14,197	9,180	7,752	7,396	7,852	6,719	5,312
84 UNIVERSITY OF IDAHO	11,622	10,021	8,572	7,881	4,842	4,306	3,759	3,530
85 SUNY UPSTATE MEDICAL CTR	11,591	9,264	9,486	6,907	7,610	6,051	6,720	5,509
86 UTAH STATE UNIVERSITY	11,591	11,529	9,837	9,243	8,375	7,921	7,594	6,301
87 CLEMSON UNIVERSITY	11,364	8,288	6,744	5,992	2,932	2,572	2,260	2,360
88 U OF CAL IRVINE	11,329	8,619	6,776	5,029	9,987	7,427	5,949	4,376
89 EMORY UNIVERSITY	11,046	8,844	8,232	7,739	9,694	7,514	7,141	6,817
90 GEORGETOWN UNIVERSITY	10,944	8,876	7,771	5,465E	5,448	4,792	5,026	4,674
TOTAL 1ST 90 INSTS.	2,713,787	2,418,876	2,359,013	2,133,575	1,821,174	1,625,640	1,637,648	1,470,783
91 UNIV OF VT & ST AGRIC COL	10,527	7,786	7,488	6,384	7,240	5,127	4,761	4,696
92 INDIANA UNIV-BLOOMINGTON	10,289	8,678	9,214	9,258	8,896	7,200	7,744	7,799
93 U PUERTO RICO MAYAGUEZ	10,049	9,425	8,482E	7,634E	3,190	3,147	2,832E	2,549E
94 SUNY STONY BROOK	10,000	8,910	8,540	7,142	8,682	7,324	6,837	6,252
95 NEW MEXICO STATE UNIV	9,966	7,986	6,849	12,899	8,746	7,249	6,257	12,437
96 UNIVERSITY OF ARKANSAS	9,926	8,422	7,638	9,192	2,773	2,306	2,811	4,312
97 UNIV OF MD BALTIMORE	9,892	7,981	6,812	6,270	6,445	6,724	5,695	5,747
98 ST LOUIS UNIV	9,269	5,704	5,548	5,725	8,239	4,943	4,771	4,721
99 U TEX GALVESTON MED BRAN	9,099	7,649	6,534	5,345	5,841	4,430	4,224	3,705
100 BROWN UNIVERSITY	8,975	8,345	8,894	12,736	8,143	7,779	8,344	8,875
TOTAL 1ST 100 INSTS.	2,811,779	2,499,702	2,434,712	2,216,180	1,891,365	1,681,869	1,691,924	1,531,876

SEE FOOTNOTES AT END OF TABLE.

TABLE B-16.
CONTINUED

TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY TOTAL R&D EXPENDITURES (1975)	TOTAL R&D EXPENDITURES				FEDERALLY FINANCED R&D EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
101 SUNY DOWNSTATE MED CTR	8,885	7,535	5,568	4,960	7,336	6,001	4,126	3,709
102 UNIVERSITY OF NEW MEXICO	8,844	7,093	7,093	5,537	7,223	5,632	5,093	4,398
103 WAYNE STATE UNIVERSITY	8,811	7,168	6,386	4,805	5,457	4,450	3,741	3,148
104 INDIANA UNIVERSITY-PURDU.	8,748	8,168	7,965	7,396	6,102	5,665	5,714	4,783
105 UNIV OF MAINE ORONO	8,485	8,824E	6,438	5,769	3,968	4,436E	4,307	3,118
106 U TEX HLTH SCI CTR DALLAS	8,436	6,969	6,258	5,484	6,898	5,349	4,941	4,379
107 UNIVERSITY OF DENVER	7,880	7,604	6,611	6,323	6,329	5,425	5,437	5,223
108 UNIVERSITY OF WYOMING	7,728	7,457	6,678	5,660	5,069	4,626	4,531	3,510
109 UNIVERSITY OF OREGON	7,690	7,276	6,697	5,776	7,506	6,975	6,361	5,003
110 MONTANA STATE UNIVERSITY	7,622	6,130	6,092	4,963	3,060	2,314	2,450	2,220
TOTAL 1ST 110 INSTS.	2,694,912	2,571,688	2,501,098	2,272,835	1,950,313	1,732,742	1,738,625	1,671,367
111 U TENN MED UNITS MEMPHIS	7,444	6,142	7,081	4,970	6,244	5,198	6,001	4,174
112 WEST VIRGINIA UNIVERSITY	7,418	6,820	6,851	8,721E	5,469	4,225	4,736	6,123E
113 VIRGINIA COMMONWLTH UNIV	7,315	6,871	6,850	5,718	5,436	5,152	5,282	4,082
114 TUFTS UNIVERSITY	7,128	7,647	7,436	7,489	6,016	6,280	6,393	6,475
115 BRANDEIS UNIVERSITY	7,033	6,747	6,601	6,443E	6,438	6,057	5,814	5,658E
116 UNIVERSITY OF DAYTON	7,024	6,333	6,395	5,623	6,548	6,080	6,067	5,281
117 ALBANY MED COL OF UNION U	6,939	5,980	6,598	5,831	4,015	3,139	3,127	2,626
118 THOM JEFFERSON UNIV HOSP	6,915	5,460	4,847	3,881	3,419	4,215	3,873	2,826
119 NORTH DAKOTA STATE UNIV	6,856	5,602	5,263	4,728	1,665	1,514	1,480	1,341
120 UNIVERSITY OF DELAWARE	6,783	6,333	5,760	4,984	3,689	3,566	3,500	3,158
TOTAL 1ST 120 INSTS.	2,965,767	2,835,623	2,564,780	2,331,223	2,001,252	1,776,168	1,784,898	1,613,111
121 U TENN INST OF AGRICULT	6,748	4,788	4,407	4,109	2,279	2,078	2,018	1,924
122 LA ST U BATON ROUGE	6,740	6,534	4,371	15,599	3,222	3,024	2,010E	5,083
123 UNIV OF RHODE ISLAND	6,738	5,187	4,940E	4,705E	5,460	4,166	3,968E	3,779E
124 SYRACUSE UNIVERSITY	6,659	6,020	11,988	7,250E	5,780	5,017	10,233	6,000E
125 RICE UNIVERSITY	6,591	6,297	5,927	5,637	5,499	5,122	4,971	4,878
126 U TEX MED SCH HOUSTON	6,249	4,625	3,812	386	5,243	3,909	2,884	381
127 U OF ILL MEDICAL CENTER	6,216	6,224	6,554	6,857	3,747	3,999	4,330	4,373
128 UNIV OF MISSISSIPPI	6,124	6,073	6,278	5,010E	3,706	3,608	3,865	3,344E
129 NEW YORK MEDICAL COLLEGE	6,056	5,473	4,615	4,695	4,757	4,274	3,550	3,032
130 U TENNESSEE KNOXVILLE	6,042	4,898	4,067	3,279	5,326	4,232	3,555	2,621
TOTAL 1ST 130 INSTS.	3,029,930	2,891,762	2,621,739	2,388,550	2,046,271	1,817,597	1,826,282	1,648,526
131 THE MED COLL OF WISCONSIN	5,924	5,366	5,066	5,862	4,006	3,432	3,372	2,275
132 DARTMOUTH COLLEGE	5,690	3,726	4,918	4,565	5,105	3,371	4,501	4,046
133 U OF NEB MED C AT OMAHA	5,665	4,617	3,706E	3,369	3,599	3,338	2,984E	2,713
134 MEDICAL COLL OF GEORGIA	5,664	5,036	3,924	2,672	2,764	2,449	2,762	1,570
135 COL OF MED & DENT OF N J	5,659	4,228	3,457	2,295	4,385	3,294	2,902	1,769
136 RENSSELAER POLY INST	5,638	5,030E	5,382E	4,893	4,672	4,482E	4,796E	4,360
137 U OF OREGON MED SCHOOL	5,508	5,753	6,036E	5,487	4,289	4,707	4,571E	4,155
138 U OF CAL SANTA BARBARA	5,452	4,770	4,939	4,578	4,565	3,857	4,146	4,010
139 UNIV OKLAHOMA	5,387	4,991	5,937E	5,478E	4,687	4,209	4,797E	4,505E
140 TEXAS TECH UNIVERSITY	5,127	4,084	4,017	4,093	1,514	935	938	877
TOTAL 1ST 140 INSTS.	3,085,644	2,739,483	2,669,141	2,429,842	2,085,857	1,851,671	1,862,051	1,678,806
141 LEHIGH UNIVERSITY	5,054	4,826	4,654	5,610	3,235	3,179	3,274	3,567
142 UNIVERSITY OF NOTRE DAME	5,018	5,011	4,527	4,373	4,378	4,428	4,096	4,053
143 UNIVERSITY OF HOUSTON	4,782	3,387	3,044	2,156	4,107	2,728	2,436	1,714
144 UNIVERSITY OF LOUISVILLE	4,778	3,324	2,751	2,369	2,627	2,280	1,887	1,802
145 SOUTH DAKOTA STATE UNIV	4,771	4,527	4,472	4,370	1,645	1,607	1,596	1,729
146 U TEX HLTH SCI CR SAN ANT	4,593	3,494	3,285	1,530	3,658	2,753	2,599	1,080
147 UNIV OF MISSOURI ROLLA	4,389	4,649	4,059	4,565	2,076	2,255	2,200	2,593
148 UNIV OF NEW HAMPSHIRE	4,373	3,547	3,656	3,094	2,594	2,487	2,846	2,602
149 U OF WIS MILWAUKEE	4,369	3,760	3,665	3,187	1,581	1,190	1,149	1,036
150 S U N Y SYSTEM OFFICE	4,278I	3,766E	3,572	3,215F	3,272I	2,696E	2,812	2,240E
TOTAL 1ST 150 INSTS.	3,132,049	2,779,791	2,707,026	2,464,511	2,115,030	1,877,474	1,886,946	1,701,222

SEE FOOTNOTES AT END OF TABLE.

TABLE B-16.
CONTINUED

TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONS RANKED BY TOTAL R&D EXPENDITURES (1975)	TOTAL R&D EXPENDITURES 1975	1974	1973	1972	FEDERALLY FINANCED R&D EXPENDITURES 1975	1974	1973	1972
151 MICHIGAN TECH UNIVERSITY	4,128	3,244	2,207	1,948	1,098	925	460	393
152 INDIANA UNIV NORTHWEST	4,104	4,847	5,082	5,375	3,996	4,845	5,077	3,282
153 RUSH MEDICAL COLLEGE	4,097	4,759	4,485	3,785E	3,149	3,762	2,792	2,062E
154 LA ST U MED CTR N ORLEANS	4,086	3,532	3,231	2,447	3,298	2,580	2,060	1,739
155 SUNY ALBANY	4,001	3,497	3,686	5,165	2,900	2,767	2,935	3,673
156 UNIV OF SOUTH FLORIDA	3,927	2,108	1,956	1,178	1,300	1,084	1,087	787
157 BOSTON COLLEGE	3,872	3,280	4,182E	3,802	2,578	1,967	2,552E	2,320
158	3,765	3,093	3,255E	3,058C	3,069	2,453	2,638E	3,151C
159 UNIV OF NEVADA - RENO	3,764	4,114	3,049	1,952	1,333	1,373	1,239	1,242
160 U OF CAL SANTA CRUZ	3,605	3,015	2,769	2,711	2,262	1,871	1,715	1,911
TOTAL 1ST 160 INSTS.	3,171,398	2,815,280	2,740,928	2,494,532	2,140,013	1,901,101	1,909,501	1,721,782
161 POLYTECHNIC INST OF N Y	3,501	3,761	3,239	2,845	3,337	3,453	3,012	2,582
162 UNIV OF MO SYSTEM OFC	3,497	4,758	4,706	6,900	365	1,872	2,368	2,903
163 U OF NEV DESERT RES INST	3,423	3,210	3,239	4,000E	1,397	1,562	2,216	2,000E
164 MED UNIV OF SO CAROLINA	3,356	2,948	2,305	2,084	2,846	2,346	1,739	1,645
165 ARIZONA STATE UNIVERSITY	3,333	2,617	2,242	1,919	2,342	1,395	1,245	1,224
166 UNIV OF ILL CHICAGO CIR	3,306	2,021	1,775	1,364	2,649	1,628	1,380	1,260
167 UNIV OF NORTH DAKOTA	3,255	1,890	1,400	1,126	2,708	1,580	1,023	750
168 UNIV OF SOUTH ALABAMA	3,195	1,761	985	530	2,485	1,239	774	506
169 STEVENS INSTITUTE OF TECH	3,158	3,472	3,498	3,424	2,080	2,113	2,220	2,218
170 CITY COLLEGE OF NEW YORK	3,158	1,943I	1,833E	1,666E	2,309	1,426I	1,284E	1,247E
TOTAL 1ST 170 INSTS.	3,204,582	2,843,661	2,766,150	2,520,590	2,162,531	1,919,915	1,926,962	1,738,117
171 BRIGHAM YOUNG UNIVERSITY	3,132	2,656	2,698E	2,453	1,477	1,599	1,366E	1,244
172 UNIV OF SOUTH CAROLINA	3,114	2,245	1,841	1,657E	1,555	982	792	713E
173 US NAVAL POSTGRAD SCHOOL	3,095	2,601	2,925	1,934	3,095	2,601	2,925	1,934
174 HOWARD UNIVERSITY	3,069	4,216	3,680E	3,672E	2,612	3,680	2,863E	2,657E
175 SAN DIEGO STATE UNIV	2,956	2,966	2,842	2,522	2,292	2,377	2,272	2,025
176 CATHOLIC UNIV OF AMERICA	2,930	2,462	2,488	2,393	2,331	2,092	2,155	2,040
177 ALABAMA A & M UNIV	2,821	896	694E	442E	1,900	640	512E	290E
178	2,733	2,846	2,836C	2,474C	2,067	2,362	2,381	2,149C
179 UNIVERSITY OF MONTANA	2,727	3,040	2,764E	1,497	1,680	1,709	1,554E	720
180 U OF CAL UNIV-WIDE PRGMS	2,651	2,139	1,991	1,716	106	72	50	35
TOTAL 1ST 180 INSTS.	3,233,807	2,869,728	2,790,909	2,541,350	2,181,646	1,938,029	1,943,834	1,752,124
181 CUNY GRADUATE DIVISION	2,619	2,301	1,567	815E	2,124	1,480	991	550E
182 SUNY COL OF ENV SCI & FOR	2,502	2,362	2,808	2,290	891	880	899	671
183 DREXEL UNIVERSITY	2,443	2,466	2,358E	1,609E	1,660	1,638	1,904E	1,471E
184 AMERICAN UNIVERSITY THE	2,408	2,105	2,143	2,126	2,364	2,059	2,112	2,057
185 N MEX INST MINING & TECH	2,321	2,695	2,534	2,267	1,615	1,618	1,460E	1,338
186 U OF ARKANSAS MED CENTER	2,318	2,258	2,249	2,051	1,812	1,654	1,766	1,802
187 HAHNEMAN MEDICAL COLLEGE	2,166	2,902	3,111	3,330	1,256	2,257	2,517	2,113
188 SOUTHERN ILLINOIS UNIV	2,156	2,459	2,754	3,246	693	654	580	642
189 U PUERTO RICO MED SCI CMP	2,115	1,963	1,767E	1,590E	2,107	1,579	1,419E	1,277E
190 THE MED COLL OF PENNA	2,105	1,611	1,313	992	1,722	1,066	1,081	758
TOTAL 1ST 190 INSTS.	3,256,960	2,892,830	2,813,513	2,561,738	2,197,890	1,952,916	1,958,563	1,764,803
191 LOYOLA UNIVERSITY	2,025	1,625	1,436	1,399	1,769	1,433	1,175	1,142
192 WORCESTER POLY INSTITUTE	1,964	1,488	1,986	1,708	402	414	467	557
193 COLORADO SCHOOL OF MINES	1,922	1,259	1,380	834	1,653	1,102	1,366	816
194 NC AG & TECH STATE UNIV	1,830	1,419	1,618E	786	1,583	1,335	1,068	613
195 INSTITUTE PAPER CHEMISTRY	1,822	2,045	1,970	2,081	132	169	93	121
196 SOUTHERN METHODIST UNIV	1,780	1,530	1,910	1,328	1,130	1,064	1,518	1,044
197 VIRGINIA STATE COLLEGE	1,776	869	272	103	1,776	869	262	97
198 ILLINOIS INST OF TECH	1,764	2,277	2,834	3,072	1,524	2,038	2,571	2,831
199 LOMA LINDA UNIVERSITY	1,751	1,177	1,044	845	1,324	801	638	468E
200 SUNY BINGHAMTON	1,712	1,189	806E	733	1,208	865	640	582E
TOTAL 1ST 200 INSTS.	3,275,206	2,907,708	2,828,469	2,574,706	2,210,503	1,963,004	1,968,367	1,773,074
TOTAL ALL OTHER INSTS.	117,830	109,528	111,134	101,805	72,476	69,479	69,841	65,859

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-17.

R&D EXPENDITURES IN DOCTORATE-GRANTING UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	3,818,582	2,235,019	330,374	14,819	460,534	108,093	382,666	98,475
1 UNIV OF WISCONSIN-MADISON	95,436	48,217	16,527	0	3,331	1,489	22,652	3,220
2 MASS INST OF TECHNOLOGY	84,668	69,599	598	203	3,141	4,298	1,135	5,094
3 U OF CAL SAN DIEGO	76,898	69,032	368	0	3,233E	0	4,268	0
4 UNIVERSITY OF MICHIGAN	74,553	46,671	2,727	0	3,074	4,202	16,017	1,862
5 UNIVERSITY OF MINNESOTA	69,055	41,827	11,246	0	3,347	1,515	7,957	3,663
6 COLUMBIA UNIV MAIN DIV	68,197	50,852	137	262	8,912	375	3,121	4,538
7 STANFORD UNIVERSITY	66,876	59,640	78	0	2,814	71	3,259	1,014
8 UNIVERSITY OF WASHINGTON	65,947	55,200	3,767	1,283	2,184	898	574	1,981
9 U OF CAL BERKELEY	65,087	46,648	657	0	2,466E	0	15,316	0
10 HARVARD UNIVERSITY	64,176	49,667	251	0	5,908	1,341	5,001	2,008
TOTAL 1ST 10 INSTS.	731,493	537,413	36,453	1,748	38,410	14,189	79,300	23,980
11 CORNELL UNIVERSITY	61,545	36,841	14,657	0	2,302	1,943	3,581	1,821
12 UNIVERSITY OF CHICAGO	58,766	45,096	998	530	3,713	343	6,563	1,523
13 U OF CAL LOS ANGELES	57,831	47,326	120	0	3,884E	153E	6,368	0
14 JOHNS HOPKINS UNIVERSITY	56,471	45,787	1,635	129	6,421	1,533	940	10
15 UNIV ILLINOIS URBANA	51,203	32,840	1,189	440	742	771	14,356	859
16 U OF CAL SAN FRANCISCO	43,061	36,450	237	0	3,590E	644E	2,340	0
17 UNIV OF TEXAS AT AUSTIN	41,754	23,830	2,065	109	1,377	565	11,595	2,195
18 YALE UNIVERSITY	41,031	35,255	487	0	2,266	170	1,820	1,034
19 UNIV OF PENNSYLVANIA	41,006	34,762	387	743	2,404	1,507	195	1,008
20 NEW YORK UNIVERSITY	40,976	31,714	398	745	3,767	1,729	423	2,200
TOTAL 1ST 20 INSTS.	1,225,338	907,320	58,826	4,444	69,086	23,545	127,481	34,636
21 U OF CAL DAVIS	40,707	20,573	2,000	0	874	1,218	15,747	0
22 TEXAS A & M UNIVERSITY	39,349	16,180	17,557	0	2,256	2,886	0	468
23 UNIVERSITY OF ROCHESTER	38,848	26,852	262	696	2,101	1,955	5,504	1,278
24 OHIO STATE UNIVERSITY	38,727	21,146	8,953	0	1,588	2,448	1,937	2,685
25 MICHIGAN STATE UNIVERSITY	36,708	24,257	7,880	134	1,662	2,114	0	1,121
26 UNIVERSITY OF FLORIDA	36,149	14,514	2,140	25	812	1,152	16,995	511
27 PURDUE UNIV ALL CAMPUSES	35,109	20,278	5,630	37	652	1,625	6,907	0
28 UNIVERSITY OF GEORGIA	33,076	10,399	21,515	1	296	861	0	0
29 UNIVERSITY OF COLORADO	30,825	25,312	419	99	1,362	654	2,084	894
30 PENNSYLVANIA STATE UNIV	30,375	16,105	3,025	6	295	1,215	8,215	1,416
TOTAL 1ST 30 INSTS.	1,587,071	1,102,907	128,209	5,842	82,164	40,070	184,870	43,009
31 WASHINGTON UNIV ST LOUIS	30,165	27,101	243	0	1,059	738	0	1,024
32 UNIV OF NC AT CHAPEL HILL	30,136	24,825	2,563	0	1,348	1,400	0	0
33 UNIVERSITY OF ARIZONA	29,761	14,902	9,360	199	667	1,675	1,276	1,282
34 UNIV OF STHRN CALIFORNIA	29,186	24,921	97	180	2,306	1,674	0	0
35 YESHIVA UNIVERSITY	28,502	23,272	1,200	0	4,030	0	0	0
36 UNIVERSITY OF MIAMI	28,101	20,819	298	1	1,118	1,054	3,562	1,249
37 ROCKEFELLER UNIVERSITY	27,446	11,503	364	459	3,568	373	11,143	336
38 DUKE UNIVERSITY	26,791	23,365	324	56	1,994	362	466	224
39 IOWA ST U OF SCI & TECH	26,246	7,255	6,075	349	168	1,432	8,125	1,042
40 RUTGERS THE STATE UNIV	25,638	10,484	5,666	25	265	0	8,057	1,141
TOTAL 1ST 40 INSTS.	1,869,140	1,291,334	156,599	6,911	98,707	48,786	217,499	49,307
41 N C STATE UNIV AT RALEIGH	25,578	9,496	13,108	73	249	1,302	976	172
42 UNIVERSITY OF HAWAII	24,596	15,540	7,808	126	610	160	0	352
43 UNIV OF MISSOURI COLUMBIA	24,538	8,796	6,089	0	213	574	8,043	823
44 COLORADO STATE UNIVERSITY	24,288	17,902	4,536	45	349	1,157	289	10
45 OREGON STATE UNIVERSITY	24,181	13,600	6,307	68	1,050	1,173	498	1,485
46 UNIVERSITY OF UTAH	22,777	20,504	361	0	633	412	867	0
47 CALIFORNIA INST OF TECH	22,398	19,262	187	15	2,364	142	124	326
48 CASE WESTERN RESERVE UNIV	21,097	17,450	273	147	2,305	887	120	505
49 UNIV OF MD COLLEGE PARK	21,431	13,360	6,069	0	18	1,085	879	0
50 UNIVERSITY OF ALASKA	21,139	12,047	923	50	315	1,740	5,620	444
TOTAL 1ST 50 INSTS.	2,101,763	1,439,321	202,260	7,435	106,813	57,595	234,915	53,424

SEE FOOTNOTES AT END OF TABLE.

TABLE B-17.
CONTINUED

R&D EXPENDITURES IN DOCTORATE-GRANTING UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
51 NORTHWESTERN UNIVERSITY	21,097	15,811	176	0	1,792	667	1,624	1,055
52 UNIVERSITY OF IOWA	20,128	17,555	129	6	658	273	1,356	153
53 PRINCETON UNIVERSITY	19,737	14,918	32	0	708	387	3,682	10
54 BAYLOR COLLEGE OF MED	19,643	18,118	0	1	1,350	124	0	50
55 UNIVERSITY OF CONNECTICUT	18,466	8,819	291	11	594	220	8,076	455
56 VIRGINIA POLYTECHNIC INST	18,089	7,547	7,610	132	234	1,728	501	337
57 UNIV OF NEBRASKA - LNCLN	18,084	4,480	9,019	248	58	480	3,662	157
58 UNIVERSITY OF PITTSBURGH	17,963	14,742	28	20	986	559	1,060	268
59 CUNY MT SINAI SCH OF MED	17,234	13,492	71	573	1,058	89	1,026	923
60 U OF TEX M D ANDERSON HOS	17,216	10,692	0	0	356	0	5,663	305
TOTAL 1ST 60 INSTS.	2,288,920	1,565,473	219,618	8,426	114,807	61,892	261,567	57,137
61 WOODS HOLE OCNGRPHIC INST	17,196	14,946	75	0	770	145	740	522
62 GEORGIA INSTITUTE OF TECH	17,109	9,184	366	514	40	1,564	5,002	439
63 U OF CAL RIVERSIDE	17,024	6,702	1,066	0	770I	0	8,486	0
64 WASHINGTON STATE UNIV	16,534	4,100	9,786E	25E	12E	2,614E	0	0
65 TEMPLE UNIVERSITY	16,461	11,272	212	0	988	70	2,266	1,653
66 UNIV ALABAMA BIRMINGHAM	16,324	15,134	0	0	467	461	0	262
67 BOSTON UNIVERSITY	15,944	13,955	608	48	844	472	20	17
68 MISSISSIPPI STATE UNIV	15,824	4,099	6,574	398	82	311	4,194	166
69 UNIVERSITY OF CINCINNATI	15,473	6,205	41	521	741	847	5,085	2,533
70 CARNEGIE-MELLON UNIV	15,443	9,968	220	0	574	3,311	1,300	70
TOTAL 1ST 70 INSTS.	2,452,252	1,662,918	238,566	9,732	120,095	71,682	286,660	62,599
71 UNIV OF KENTUCKY ALL CAM	15,269	7,851	3,444	0	93	245	3,517	119
72 VANDERBILT UNIVERSITY	15,171	13,341	28	17	572	333	781	99
73 OKLAHOMA STATE UNIVERSITY	15,167	6,216	5,796	0	61	1,463	1,631	0
74 UNIVERSITY OF KANSAS	15,142	10,726	905	17	285	197	2,905	107
75 KANSAS ST UNIVERSITY	14,561	5,611	6,367	5	104	408	2,363	3
76 GEORGE WASHINGTON UNIV	14,557	13,011	0	18	555	111	772	90
77 SUNY BUFFALO	14,391	13,485	153	0	459	77	33	184
78 FLORIDA STATE UNIVERSITY	14,320	8,426	2,148	0	359	358	3,027	0
79 UNIVERSITY OF VIRGINIA	14,292	10,816	51	0	551	486	2,145	243
80 LSU CTR AGR SCI/RUR DEV	13,114	521	108	0	0	0	11,406	1,076
TOTAL 1ST 80 INSTS.	2,598,233	1,752,924	257,266	9,789	123,134	75,360	315,240	64,520
81 AUBURN UNIVERSITY	12,049	4,230	4,480	18	0	524	2,791	0
82 TULANE UNIVERSITY	12,028	7,734	244	1	1,290	756	1,093	910
83 UNIV OF MASS AT AMHERST	11,990	7,398	2,402	5	512	490	999	184
84 UNIVERSITY OF IDAHO	11,622	4,842	5,056	7	19	636	0	1,062
85 SUNY UPSTATE MEDICAL CTR	11,591	7,610	0	0	256	99	356	3,290
86 UTAH STATE UNIVERSITY	11,594	8,379	2,134	0	274	201	59	568
87 CLEMSON UNIVERSITY	11,364	2,932	7,361	1	89	470	373	138
88 U OF CAL IRVINE	11,329	9,987	477	0	701E	178E	286	0
89 EMORY UNIVERSITY	11,046	9,694	0	0	444	617	34	257
90 GEORGETOWN UNIVERSITY	10,944	8,448	2	0	1,439	145	1,814	2,096
TOTAL 1ST 90 INSTS.	2,713,787	1,821,174	274,128	9,821	128,138	79,476	323,025	73,025
91 UNIV OF VT & ST AGRIC COL	10,527	7,240	909	0	561	164	1,468	185
92 INDIANA UNIV-BLOOMINGTON	10,289	8,896	265	22	222	245	532	107
93 U PUERTO RICO MAYAGUEZ	10,049	3,190	5,542	0	0	8	1,309	0
94 SUNY STONY BROOK	10,000	8,682	28	86	900	200	0	104
95 NEW MEXICO STATE UNIV	9,966	8,746	331	41	0	561	238	49
96 UNIVERSITY OF ARKANSAS	9,926	2,775	6,520	0	28	394	0	211
97 UNIV OF MD BALTIMORE	9,892	8,445	183	10	192	255	68	739
98 ST LOUIS UNIV	9,269	8,233	70	8	599	0	0	357
99 U TEX GALVESTON MED BRAN	9,099	5,841	1,402	0	1,029	397	0	430
100 BROWN UNIVERSITY	8,975	8,143	32	35	430	86	0	249
TOTAL 1ST 100 INSTS.	2,811,779	1,891,365	294,410	10,025	132,099	81,786	326,640	75,456
TOTAL ALL OTHER INSTS.	506,803	341,654	35,964	4,796	28,435	26,907	56,028	13,019

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-17.
CONTINUED

R&D EXPENDITURES IN MASTER'S-GRANTING UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	48,874	31,898	5,318	562	2,830	2,453	4,893	920
1 CITY COLLEGE OF NEW YORK	3,158	2,309	50	50	50	200	450	49
2 ALABAMA A & M UNIV	2,621	1,900	846	0	11	0	0	64
3 NC AG & TECH STATE UNIV	1,830	1,685	84	0	54	7	0	0
4 VIRGINIA STATE COLLEGE	1,776	1,776	0	0	0	0	0	0
5 SUNY COLLEGE BROCKPORT	1,539	1,069	0	0	71	24	375	0
6 FLORIDA A & M UNIVERSITY	1,509	1,213	143	0	1	0	152	0
7 ANTIOCH COLLEGE	1,250I	1,195I	41	1I	21I	8I	16I	5I
8 TRINITY UNIVERSITY	1,169	732	49	0	106	0	265	17
9 TUSKEGEE INSTITUTE	1,092	1,026	0	0	17	9	26	14
10 CUNY BROOKLYN COLLEGE	1,073	817	22	0	195	0	0	39
TOTAL 1ST 10 INSTS.	17,217	13,722	1,198	51	526	248	1,284	188
11 SUNY COLLEGE FREDONIA	1,033	248	417	25	53	0	290	0
12 CALIF STATE UNIV LA	918	819	49	0	6	4	16	24
13 OREGON COLLEGE OF EDUC	909	801	24	18	2	0	0	64
14 SUNY COLLEGE BUFFALO	886	731	0	0	1	123	0	31
15 WRIGHT STATE UNIV	846	705	39	29	12	4	53	4
16 PRAIRIE VIEW A & M UNIV	825	708	43	0	14	0	0	0
17 CUNY QUEENS COLLEGE	809	536	0	18	85	0	170	0
18 S ILLINOIS U EDWARDSVILLE	801	200	34	3	26	0	531	7
19 ROCHESTER INST TECHNOLOGY	788	154	0	0	353	0	281	0
20 SAN JOSE ST UNIV	737	485	27	0	28	106	36	55
TOTAL 1ST 20 INSTS.	25,769	19,169	1,831	144	1,106	485	2,661	373
21 UNIV OF WEST FLORIDA	727	156	376	24	17	14	140	0
22 TEXAS A & I UNIVERSITY	712	103	485	0	55	69	0	0
23 STEPHEN F AUSTIN ST UNIV	701	259	243	0	192	27	0	0
24 SOUTHERN UNIV	657I	657I	0I	0I	0I	0I	0I	0I
25 SUNY COLLEGE OSWEGO	652	160	45	0	6	418	0	23
26 UNIV OF SAN FRANCISCO	646	387E	53E	12E	11E	4E	22E	7E
27 UNIV OF NEVADA LAS VEGAS	637	140	77	71	0	142	207	0
28 UNIV TENN NASHVILLE	580	329	75	0	25	1	109	41
29 WSTRN KENTUCKY UNIVERSITY	553	265	175	0	1	2	91	0
30 EAST CAROLINA UNIVERSITY	540	121	256	0	24	38	0	1
TOTAL 1ST 30 INSTS.	32,174	21,894	3,716	251	1,436	1,200	3,230	445
31 JACKSON STATE COLLEGE	540	540	0	0	0	0	0	0
32 PAN AMERICAN COLLEGE	534	498	36	0	0	0	0	0
33 WESTERN WASHINGTON ST COL	532	307	106	0	7	8	61	13
34 CLARION STATE COLLEGE	496	85	0	0	0	0	411	0
35 MONT COL MINRL SCI & TECH	482	319	65	0	0	67	0	31
36 XAVIER UNIVERSITY	475	225	48	11	94	49	32	16
37 FLORIDA TECH UNIV	469	268	171	4	8	16	2	0
38 DRAKE UNIVERSITY	425	267	52	0	10	64	32	0
39 CUNY HUNTER COLLEGE	424	398	0	0	26	0	0	0
40 EDINBORO STATE COLLEGE	419I	168I	103I	9I	25I	33I	67I	14I
TOTAL 1ST 40 INSTS.	36,970	24,969	4,327	275	1,608	1,427	3,835	519
41 CALIF STATE UNIV LONG BCH	325	220	0	32	22	28	23	0
42 HUMBOLDT STATE UNIVERSITY	312	266	22	3	2	2	16	1
43 EASTERN NEW MEXICO UNIV	308	233	51	0	0	2	22	0
44 FLORIDA ATLANTIC UNIV	306	306	0	0	0	0	0	0
45 WESTERN ILLINOIS UNIV	284	251	6	0	0	9	18	0
46 UNIV OF WIS STOUT	277	190	23	0	14	9	41	0
47 MOREHEAD STATE UNIVERSITY	274	187	0	0	0	0	87	0
48 OCCIDENTAL COLLEGE	267	96	0	0	36	96	20	19
49 FISK UNIVERSITY	253	243	0	0	10	0	0	0
50 MANHATTAN COLLEGE	249	249	0	0	0	0	0	0
TOTAL 1ST 50 INSTS.	39,825	27,210	4,429	310	1,692	1,583	4,062	539
TOTAL ALL OTHER INSTS.	9,049	4,688	889	252	1,138	870	831	381

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

Table B-17.
CONTINUED

R&D EXPENDITURES IN OTHER UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	25,680	19,062	753	47	2,223	414	2,398	783
1 INDIANA UNIV NORTHWEST	4,104	3,996	0	0	1	0	107	0
2 UNIV OF SOUTH ALABAMA	3,195	2,483	455	0	150	43	60	0
3 NEW ENGLAND INSTITUTE	1,539	271	0	0	805	29	250	484
4 WENTWORTH INST/COLLEGE	1,118	1,015	0	0	44	37	22	0
5 GALLAUDET COLLEGE	874	280	0	0	0	0	594	0
6 US AIR FORCE ACADEMY	839	839	0	0	0	0	0	0
7 US NAVAL ACADEMY	756	756	0	0	0	0	0	0
8 ALCORN STATE UNIV	638	638	0	0	0	0	0	0
9 NEW YORK INST TECH	619	38	0	0	215	0	366	0
10 AMHERST COLLEGE	593	557	0	0	36	0	0	0
TOTAL 1ST 10 INSTS.	14,075	10,873	455	0	751	111	1,399	484
11 KENTUCKY STATE UNIV	540	540	0	0	0	0	0	0
12 U OF MD EASTERN SHORE	536	536	0	0	0	0	0	0
13 OHIO DOMINICAN COLLEGE	500	0	0	0	500	0	0	0
14 U OF ARKANSAS PINE BLUFF	470	470	0	0	0	0	0	0
15 EMMANUEL COLLEGE	446	446	0	0	0	0	0	0
16 POMONA COLLEGE	443	384	0	0	0	0	0	59
17 FAIRFIELD UNIVERSITY	436	291	0	0	12	0	133	0
18 SOUTH CAROLINA ST COLLEGE	403	398	0	0	0	0	5	0
19 REED COLLEGE	398	241	0	0	150	0	7	0
20 CUNY YORK COLLEGE	394	221	0	41	0	5	127	0
TOTAL 1ST 20 INSTS.	18,045	14,402	455	41	1,413	116	1,671	543
21 REGIS COLLEGE	381	381	0	0	0	0	0	0
22 HAVERFORD COLLEGE	367	330	0	0	29	0	8	0
23 WILLIAMS COLLEGE	316	152	0	0	164	0	0	0
24 US MILITARY ACADEMY	298	298	0	0	0	0	0	0
25 WEBB INST OF NAVAL ARCH	279	223	0	0	0	0	0	56
26 BOWDOIN COLLEGE	270	78	46	0	89	0	57	0
27 BELOIT COLLEGE	253	183	10	0	35	0	25	0
28 SWARTHMORE COLLEGE	243	233	0	0	2	0	8	0
29 GRAMBLING COLLEGE	229	195	5	0	0	0	29	0
30 NORFOLK STATE COLLEGE	181	181	0	0	0	0	0	0
TOTAL 1ST 30 INSTS.	21,462	16,656	516	41	1,734	116	1,800	599
31 UNIV OF MASS BOSTON	181	135	24	0	10	0	12	0
32 DENISON UNIVERSITY	180	41	0	0	82	3	52	2
33 COL VIRGIN ISLAND	166I	101	58I	0I	25I	27I	42I	4I
34 MACALESTER COLLEGE	165	71	0	0	14	1	19	60
35 MILWAUKEE AREA TECH COL	164	37	0	0	0	0	127	0
36 U OF WIS PARKSIDE	152	105	0	0	0	6	41	0
37 GOUCHER COLLEGE	151	85	65	0	0	0	1	0
38 U OF WIS GREEN BAY	148	54	0	0	40	11	25	18
39 JR COL DIST - ST LOUIS	131	124	7	0	0	0	0	0
40 UTICA COL OF SYRACUSE U	130	130	0	0	0	0	0	0
TOTAL 1ST 40 INSTS.	23,030	17,448	670	41	1,905	164	2,119	683
41 ALBANY STATE COLLEGE	128	128	0	0	0	0	0	0
42 COLUMBIA UNIV BARNARD COL	119	24	8	0	53	14	9	11
43 ILLINOIS BENEDICTINE COL	119	53	0	0	0	35	31	0
44 UNIV OF ALBUQUERQUE	116	116	0	0	0	0	0	0
45 COLORADO COLLEGE	115	105	0	0	1	0	9	0
46 OKLA PANHANDLE STATE UNIV	103	0	0	0	0	103	0	0
47 UNIV OF WIS RIVER FALLS	101	15	14	0	0	61	11	0
48 AUGUSTANA COLLEGE	100	91	2	0	6	0	1	0
49 LINCOLN UNIVERSITY	100	100	0	0	0	0	0	0
50 KNOX COLLEGE	98	42	9	0	35	0	1	11
TOTAL 1ST 50 INSTS.	24,129	18,122	703	41	2,000	377	2,181	705
TOTAL ALL OTHER INSTS.	1,551	940	50	6	225	37	217	78

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SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-18.

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	3,193,136	2,283,979	236,445	15,428	165,587	111,560	389,959	90,178
1 UNIV OF WISCONSIN-MADISON	95,436	48,217	16,527	0	3,331	1,489	22,652	3,220
2 MASS INST OF TECHNOLOGY	84,668	69,599	598	205	3,141	4,298	1,135	5,694
3 U OF CAL SAN DIEGO	76,898	69,032	365	0	3,233	0	4,268	0
4 UNIVERSITY OF MICHIGAN	74,553	46,671	2,727	0	3,074	4,202	16,017	1,862
5 UNIVERSITY OF MINNESOTA	69,655	41,827	11,346	0	3,347	1,515	7,957	3,663
6 COLUMBIA UNIV MAIN DIV	66,197	50,852	137	262	8,912	375	3,121	4,538
7 STANFORD UNIVERSITY	66,876	59,640	78	0	2,814	71	3,259	1,014
8 UNIVERSITY OF WASHINGTON	65,947	55,260	3,767	1,283	2,184	898	574	1,981
9 U OF CAL BERKELEY	65,087	46,648	657	0	2,466	0	15,316	0
10 HARVARD UNIVERSITY	64,176	49,607	251	0	5,908	1,341	5,001	2,008
TOTAL 1ST 10 INSTS.	731,493	537,413	36,453	1,748	38,410	14,189	79,300	23,980
11 CORNELL UNIVERSITY	61,545	36,841	14,857	0	2,502	1,943	3,581	1,821
12 UNIVERSITY OF CHICAGO	58,766	45,090	998	530	3,713	543	6,363	1,525
13 U OF CAL LOS ANGELES	57,831	47,326	120	0	3,884	133	6,368	0
14 JOHNS HOPKINS UNIVERSITY	56,471	45,787	1,635	129	6,431	1,533	940	16
15 UNIV ILLINOIS URBANA	51,203	32,846	1,189	440	742	771	14,356	859
16 U OF CAL SAN FRANCISCO	43,201	36,430	237	0	3,590	644	2,340	0
17 UNIV OF TEXAS AT AUSTIN	41,754	23,830	2,065	109	1,377	583	11,595	2,195
18 YALE UNIVERSITY	41,032	35,255	487	0	2,266	170	1,820	1,034
19 UNIV OF PENNSYLVANIA	41,006	34,762	387	743	2,404	1,507	195	1,008
20 NEW YORK UNIVERSITY	40,976	31,714	398	745	3,767	1,729	423	2,200
TOTAL 1ST 20 INSTS.	1,225,838	907,320	58,826	4,444	69,088	23,545	127,481	34,636
21 U OF CAL DAVIS	40,707	20,573	2,000	0	874	1,513	15,747	0
22 TEXAS A & M UNIVERSITY	39,349	16,180	17,057	0	2,256	2,888	0	468
23 UNIVERSITY OF ROCHESTER	38,848	26,852	262	896	2,101	1,955	5,504	1,278
24 OHIO STATE UNIVERSITY	38,727	21,116	8,953	0	1,588	2,448	1,937	2,685
25 MICHIGAN STATE UNIVERSITY	38,568	24,257	7,880	334	2,862	2,114	0	1,121
26 UNIVERSITY OF FLORIDA	36,249	14,514	2,140	25	812	1,152	16,995	511
27 PURDUE UNIV ALL CAMPUSES	33,109	20,278	5,630	37	632	1,625	6,907	0
28 UNIVERSITY OF GEORGIA	33,076	10,399	21,319	1	296	861	0	0
29 UNIVERSITY OF COLORADO	30,825	25,313	419	99	1,362	654	2,084	894
30 PENNSYLVANIA STATE UNIV	30,375	16,105	5,023	6	295	1,315	8,215	1,416
TOTAL 1ST 30 INSTS.	1,587,071	1,102,907	128,209	5,842	82,164	40,070	184,870	43,009
31 WASHINGTON UNIV ST LOUIS	30,165	27,101	243	0	1,059	738	0	1,024
32 UNIV OF NC AT CHAPEL HILL	30,138	24,840	2,563	0	1,348	1,400	0	0
33 UNIVERSITY OF ARIZONA	29,761	14,902	9,560	399	667	1,675	1,276	1,282
34 UNIV OF STHRN CALIFORNIA	29,182	24,921	97	180	2,306	1,079	0	0
35 YESHIVA UNIVERSITY	28,502	23,272	1,200	0	4,030	0	0	0
36 UNIVERSITY OF MIAMI	28,101	20,819	298	1	1,118	1,054	3,562	1,249
37 ROCKEFELLER UNIVERSITY	27,446	11,503	364	159	3,568	373	11,143	336
38 DUKE UNIVERSITY	26,791	23,365	324	56	1,994	362	465	224
39 IOWA ST U OF SCI & TECH	26,346	7,233	6,075	249	188	1,432	8,125	1,042
40 RUTGERS THE STATE UNIV	25,638	10,484	5,666	25	265	0	8,057	1,141
TOTAL 1ST 40 INSTS.	1,869,140	1,291,334	156,599	6,911	98,707	48,783	217,499	49,307
41 N C STATE UNIV AT RALEIGH	25,576	9,496	13,108	75	249	1,502	976	172
42 UNIVERSITY OF HAWAII	24,596	15,540	7,808	126	610	160	0	352
43 UNIV OF MISSOURI COLUMBIA	24,538	8,796	6,089	0	213	574	8,043	823
44 COLORADO STATE UNIVERSITY	24,288	17,902	4,536	45	349	1,157	289	10
45 OREGON STATE UNIVERSITY	24,281	13,600	6,107	66	1,050	1,175	498	1,485
46 UNIVERSITY OF UTAH	22,777	20,504	661	0	633	412	867	0
47 CALIFORNIA INST OF TECH	22,098	19,262	187	13	2,064	122	124	326
48 CASE WESTERN RESERVE UNIV	21,697	17,460	273	147	2,305	887	120	505
49 UNIV OF MD COLLEGE PARK	21,431	13,380	6,069	0	18	1,085	879	0
50 UNIVERSITY OF ALASKA	21,139	14,047	923	50	315	1,740	5,620	444
TOTAL 1ST 50 INSTS.	2,201,763	1,439,321	202,260	7,435	106,813	57,595	234,913	53,424

SEE FOOTNOTES AT END OF TABLE.

TABLE B-18.
CONTINUED

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)*

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
51 NORTHWESTERN UNIVERSITY	22,097	15,811	176	0	1,792	637	1,624	1,055
52 UNIVERSITY OF IOWA	20,128	17,553	129	0	658	273	1,356	159
53 PRINCETON UNIVERSITY	19,737	14,916	30	0	708	387	3,682	10
54 BAYLOR COLLEGE OF MED	19,643	18,116	0	1	1,350	124	0	50
55 UNIVERSITY OF CONNECTICUT	18,466	8,819	291	11	594	220	8,076	455
56 VIRGINIA POLYTECHNIC INST	18,089	7,547	7,610	132	234	1,728	501	337
57 UNIV OF NEBRASKA - LNCLN	16,084	4,400	9,019	248	58	480	3,662	157
58 UNIVERSITY OF PITTSBURGH	17,463	14,742	28	20	986	359	1,060	268
59 CUNY MT SINAI SCH OF MED	17,234	15,492	72	973	1,056	89	1,028	923
60 U OF TEX M D ANDERSON HOS	17,216	10,692	0	0	556	0	5,663	305
TOTAL 1ST 60 INSTS.	2,288,920	1,565,475	219,618	8,426	114,807	61,892	261,567	57,137
61 WOODS HOLE OCNGRPHIC INST	17,196	14,946	75	0	770	143	740	522
62 GEORGIA INSTITUTE OF TECH	17,109	9,184	360	514	40	1,564	5,002	439
63 U OF CAL RIVERSIDE	17,024	6,702	1,066	0	770E	0	8,486	0
64 WASHINGTON STATE UNIV	16,534	4,100	9,786E	25E	12E	2,611E	0	0
65 TEMPLE UNIVERSITY	16,461	11,272	212	0	988	70	2,266	1,653
66 UNIV ALABAMA BIRMINGHAM	16,324	15,134	0	0	467	461	0	262
67 BOSTON UNIVERSITY	15,944	13,935	608	48	844	472	20	17
68 MISSISSIPPI STATE UNIV	15,824	4,099	6,574	398	82	311	4,194	166
69 UNIVERSITY OF CINCINNATI	15,473	8,105	41	321	741	847	3,085	2,333
70 CARNEGIE-MELLON UNIV	15,443	9,968	220	0	574	3,311	1,300	70
TOTAL 1ST 70 INSTS.	2,452,252	1,662,918	238,566	9,732	120,095	71,682	286,660	62,599
71 UNIV OF KENTUCKY ALL CAM	15,269	7,851	3,444	0	93	245	3,517	119
72 VANDERBILT UNIVERSITY	15,171	13,341	28	17	572	333	781	99
73 OKLAHOMA STATE UNIVERSITY	15,167	6,216	5,796	0	61	1,463	1,631	0
74 UNIVERSITY OF KANSAS	15,142	10,726	905	17	285	197	2,905	107
75 KANSAS ST UNIVERSITY	14,561	5,611	6,087	5	104	408	2,303	3
76 GEORGE WASHINGTON UNIV	14,557	13,011	0	18	555	111	772	90
77 SUNY BUFFALO	14,391	13,485	153	0	459	77	33	184
78 FLORIDA STATE UNIVERSITY	14,320	8,428	2,148	0	359	358	3,027	0
79 UNIVERSITY OF VIRGINIA	14,292	10,816	51	0	551	486	2,145	243
80 LSU CTR AGR SCI/RUR DEV	13,111	521	108	0	0	0	11,406	1,076
TOTAL 1ST 80 INSTS.	2,598,233	1,752,924	257,266	9,789	123,134	75,360	315,240	64,520
81 AUBURN UNIVERSITY	12,049	4,230	4,466	18	0	524	2,791	0
82 TULANE UNIVERSITY	12,028	7,734	244	1	1,290	756	1,093	910
83 UNIV OF MASS AT AMHERST	11,990	7,398	2,402	5	512	490	999	184
84 UNIVERSITY OF IDAHO	11,622	4,842	5,056	7	19	636	0	1,062
85 SUNY UPSTATE MEDICAL CTR	11,591	7,610	0	0	236	99	356	3,290
86 UTAH STATE UNIVERSITY	11,591	8,375	2,134	0	274	201	39	568
87 CLEMSON UNIVERSITY	11,364	2,932	7,361	1	89	470	373	138
88 U OF CAL IRVINE	11,329	9,987	177	0	701E	178E	286	0
89 EMORY UNIVERSITY	11,046	9,694	0	0	444	617	34	257
90 GEORGETOWN UNIVERSITY	10,944	5,448	2	0	1,439	145	1,814	2,096
TOTAL 1ST 90 INSTS.	2,713,787	1,821,174	279,128	9,821	128,138	79,476	323,025	73,025
91 UNIV OF VT & ST AGRIC COL	10,527	7,240	909	0	561	164	1,468	185
92 INDIANA UNIV-BLOOMINGTON	10,289	8,896	265	22	222	245	532	107
93 U PUERTO RICO MAYAGUEZ	10,049	3,190	5,542	0	0	8	1,309	0
94 SUNY STONY BROOK	10,000	8,682	28	86	900	200	0	104
95 NEW MEXICO STATE UNIV	9,966	8,746	331	41	0	561	238	49
96 UNIVERSITY OF ARKANSAS	9,926	2,773	6,520	0	28	394	0	211
97 UNIV OF MD BALTIMORE	9,892	8,445	183	10	192	255	68	739
98 ST LOUIS UNIV	9,269	8,235	70	8	599	0	0	357
99 U TEX GALVESTON MED BRAN	9,099	5,841	1,402	0	1,029	397	0	430
100 BROWN UNIVERSITY	8,975	8,143	32	35	430	86	0	249
TOTAL 1ST 100 INSTS.	2,811,779	1,891,365	294,410	10,023	132,099	81,786	326,640	75,456

SEE FOOTNOTES AT END OF TABLE.

TABLE B-18.
CONTINUED

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
101 SUNY DOWNSTATE MED CTR	8,885	7,356	14	198	366	72	0	899
102 UNIVERSITY OF NEW MEXICO	8,844	7,223	888	24	366	279	44	0
103 WAYNE STATE UNIVERSITY	8,811	5,457	163	116	494	475	1,795	311
104 INDIANA UNIVERSITY-PURDUE	8,746	6,102	42	0	656	532	1,048	368
105 UNIV OF MAINE ORONO	8,489	3,966	581	11	255	574	2,948	173
106 U TEX HLTH SCI CTR DALLAS	8,436	6,898	0	0	875	558	0	125
107 UNIVERSITY OF DENVER	7,880	6,329	124	136	411	628	153	119
108 UNIVERSITY OF WYOMING	7,728	5,069	1,245	842	7	565	0	0
109 UNIVERSITY OF OREGON	7,690	7,506	30	0	39	25	77	13
110 MONTANA STATE UNIVERSITY	7,622	3,060	101	0	0	643	3,758	0
TOTAL 1ST 110 INSTS.	2,694,912	1,950,315	297,658	11,551	135,568	86,117	336,441	77,464
111 U TENN MED UNITS MEMPHIS	7,444	6,244	212	0	298	262	0	428
112 WEST VIRGINIA UNIVERSITY	7,418	5,469	1,419	0	102	103	84	241
113 VIRGINIA COMMONWLTH UNIV	7,315	5,436	93	0	537	288	628	548
114 TUFTS UNIVERSITY	7,128	6,016	23	70	632	276	86	23
115 BRANDEIS UNIVERSITY	7,033	6,438	26	0	569	0	0	0
116 UNIVERSITY OF DAYTON	7,024	6,648	14	12	197	253	0	0
117 ALBANY MED COL OF UNION U	6,939	4,015	179	0	341	1,481	0	723
118 THOM JEFFERSON UNIV HOSP	6,915	5,419	0	0	1,340	156	0	0
119 NORTH DAKOTA STATE UNIV	6,856	1,865	3,393	0	42	876	880	0
120 UNIVERSITY OF DELAWARE	6,783	3,689	1,087	0	477	855	675	0
TOTAL 1ST 120 INSTS.	2,965,767	2,001,252	304,104	11,433	140,103	90,669	338,779	79,427
121 U TENN INST OF AGRICULT	6,748	2,279	2,660	0	0	0	1,809	0
122 LA ST U BATON ROUGE	6,740	3,222	426	0	0	0	2,629	463
123 UNIV OF RHODE ISLAND	6,738	5,460	115	1,092	0	0	71	0
124 SYRACUSE UNIVERSITY	6,659	5,780	169	0	356	317	35	0
125 RICE UNIVERSITY	6,591	5,499	0	0	1,092	0	0	0
126 U TEX MED SCH HOUSTON	6,249	5,243	117	0	470	0	419	0
127 U OF ILL MEDICAL CENTER -	6,216	3,747	1,192	49	764	213	121	230
128 UNIV OF MISSISSIPPI	6,124	5,706	762	0	277	162	1,146	71
129 NEW YORK MEDICAL COLLEGE	6,056	4,757	31	435	680	174	0	9
130 U TENNESSEE KNOXVILLE	6,042	5,328	173	24	97	399	0	23
TOTAL 1ST 130 INSTS.	3,029,930	2,046,274	309,749	13,053	143,791	91,834	345,009	80,225
131 THE MED COLL OF WISCONSIN	5,924	4,006	3	0	523	504	580	308
132 DARTMOUTH COLLEGE	5,690	5,105	37	0	268	44	234	2
133 U OF NEB MED C AT OMAHA	5,665	3,599	71	10	595	276	557	755
134 MEDICAL COLL OF GEORGIA	5,664	2,764	543	0	373	198	1,750	36
135 COL OF MED & DENT OF N J	5,659	4,385	202	0	700	194	33	145
136 RENSSELAER POLY INST	5,638	4,672	221	0	19	421	262	43
137 U OF OREGON MED SCHOOL	5,506	4,289	18	0	869	35	0	297
138 U OF CAL SANTA BARBARA	5,452	4,565	21	0	497	0	369	0
139 UNIV OKLAHOMA	5,387	4,847	191	0	160	26	176	137
140 TEXAS TECH UNIVERSITY	5,127	1,514	2,364	7	260	611	4	367
TOTAL 1ST 140 INSTS.	3,085,844	2,085,857	313,420	13,070	147,858	94,155	348,974	82,313
141 LEHIGH UNIVERSITY	5,054	3,235	429	49	108	662	571	0
142 UNIVERSITY OF NOTRE DAME	5,018	4,370	29	0	454	0	157	0
143 UNIVERSITY OF HOUSTON	4,782	4,107	237	3	334	27	69	5
144 UNIVERSITY OF LOUISVILLE	4,778	2,627	491	24	597	228	653	158
145 SOUTH DAKOTA STATE UNIV	4,771	1,645	75	2	4	156	2,871	18
146 U TEX HLTH SCI CR SAN ANT	4,595	3,658	20	15	434	210	67	201
147 UNIV OF MISSOURI ROLLA	4,589	2,076	7	0	0	137	2,079	90
148 UNIV OF NEW HAMPSHIRE	4,373	2,594	563	0	29	0	856	331
149 U OF WIS MILWAUKEE	4,369	1,581	1,562	0	53	130	869	154
150 S U N Y SYSTEM OFFICE	4,278	3,021	557	121	94	811	395	071
TOTAL 1ST 150 INSTS.	3,132,049	2,115,030	317,210	13,173	149,952	95,788	357,561	83,335

SEE FOOTNOTES AT END OF TABLE.

TABLE B-18.
CONTINUED

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
151 MICHIGAN TECH UNIVERSITY	4,128	1,090	1,270	0	85	340	1,120	17
152 INDIANA UNIV NORTHWEST	4,104	3,996	0	0	1	0	107	0
153 RUSH MEDICAL COLLEGE	4,097	3,149	92	0	298	37	82	439
154 LA ST U MED CTR N ORLEANS	4,086	3,298	2	0	786	0	0	0
155 SUNY ALBANY	4,001	2,900	816	0	153	7	19	106
156 UNIV OF SOUTH FLORIDA	3,927	1,300	374	19	29	489	1,427	339
157 BOSTON COLLEGE	3,872	2,578	40	2	82	12	1,157	0
158 WAKE FOREST UNIVERSITY	3,765	3,069	37	0	214	200	21	224
159 UNIV OF NEVADA - RENO	3,764	1,333	1,874	0	194	52	37	274
160 U OF CAL SANTA CRUZ	3,605	2,262	11	0	182E	0	1,150	0
TOTAL 1ST 160 INSTS.	3,171,398	2,140,013	321,726	13,194	151,974	97,076	362,681	84,734
161 POLYTECHNIC INST OF N Y	3,501	3,337	13	0	0	151	0	0
162 UNIV OF MD SYSTEM OFC	3,497	369	0	0	33	21	3,077	1
163 U OF NEV DESERT RES INST	3,423	1,397	561	0	125	670	523	147
164 MED UNIV OF SO CAROLINA	3,358	2,840	236	0	123	104	0	49
165 ARIZONA STATE UNIVERSITY	3,333	2,342	100	25	278	184	404	0
166 UNIV OF ILL CHICAGO CIR	3,306	2,649	99	20	400	39	99	0
167 UNIV OF NORTH DAKOTA	3,255	2,708	194	0	94	205	4	50
168 UNIV OF SOUTH ALABAMA	3,195	2,485	455	0	150	45	60	0
169 STEVENS INSTITUTE OF TECH	3,158	2,080	22	28	0	889	139	0
170 CITY COLLEGE OF NEW YORK	3,158	2,309	50	50	50	200	450	49
TOTAL 1ST 170 INSTS.	3,204,582	2,162,581	323,456	13,317	153,227	99,584	367,437	85,030
171 BRIGHAM YOUNG UNIVERSITY	3,132	1,477	398	0	150E	742E	438E	286E
172 UNIV OF SOUTH CAROLINA	3,111	1,559	273	40	391	68	671	113
173 US NAVAL POSTGRAD SCHOOL	3,095	3,095	0	0	0	0	0	0
174 HOWARD UNIVERSITY	3,069	2,614	0	0	336	82	0	39
175 SAN DIEGO STATE UNIV	2,956	2,292	0	269	68	327	0	0
176 CATHOLIC UNIV OF AMERICA	2,930	2,331	0	0	361	2	236	0
177 ALABAMA A & M UNIV	2,821	1,900	846	0	11	0	0	64
178 NORTHEASTERN UNIVERSITY	2,733	2,067	60	0	130	12	260	204
179 UNIVERSITY OF MONTANA	2,727	1,680	664	32	68	84	129	70
180 U OF CAL UNIV-WIDE PRGMS	2,651	106	0	0	5E	0	2,540	0
TOTAL 1ST 180 INSTS.	3,283,807	2,181,840	325,338	13,658	154,747	100,901	371,711	85,806
181 CUNY GRADUATE DIVISION	2,619	2,124	23	223	143	5	100	1
182 SUNY COL OF ENV SCI & FOR	2,502	891	130	0	223	259	890	109
183 DREXEL UNIVERSITY	2,443	1,660	42	33	0	271	437	0
184 AMERICAN UNIVERSITY THE	2,408	2,364	0	0	44	0	0	0
185 N MEX INST MINING & TECH	2,321	1,619	596	0	0	108	0	2
186 U OF ARKANSAS MED CENTER	2,316	1,812	0	0	44	37	425	0
187 HAHNEMAN MEDICAL COLLEGE	2,166	1,256	0	20	210	313	215	152
188 SOUTHERN ILLINOIS UNIV	2,156	693	1,030	0	0	130	100	203
189 U PUERTO RICO MED SCI CMP	2,115	2,107	8	0	0	0	0	0
190 THE MED COLL OF PENNA	2,105	1,722	0	0	106	257	0	20
TOTAL 1ST 190 INSTS.	3,256,960	2,197,890	327,167	13,934	153,517	102,281	373,878	86,293
191 LOYOLA UNIVERSITY	2,025	1,769	1	6	148	65	0	36
192 WORCESTER POLY INSTITUTE	1,964	402	21	0	0	1,512	29	0
193 COLORADO SCHOOL OF MINES	1,922	1,653	117	0	0	67	85	0
194 NC AG & TECH STATE UNIV	1,830	1,685	84	0	54	7	0	0
195 INSTITUTE PAPER CHEMISTRY	1,822	132	25	0	0	602	898	165
196 SOUTHERN METHODIST UNIV	1,780	1,130	26	78	119	222	140	65
197 VIRGINIA STATE COLLEGE	1,776	1,776	0	0	0	0	0	0
198 ILLINOIS INST OF TECH	1,764	1,624	93	0	35	112	0	0
199 LOMA LINDA UNIVERSITY	1,751	1,334	0	0	168	249	0	0
200 SUNY BINGHAMTON	1,712	1,208	133	93E	64	0	214	0
TOTAL 1ST 200 INSTS.	3,275,306	2,210,503	327,667	14,111	154,105	105,117	375,244	86,559
TOTAL ALL OTHER INSTS.	117,830	73,476	8,778	1,317	9,482	6,443	14,715	3,619

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-19.

R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	2,180,005	1,340,781	308,925	9,958	76,365	70,157	320,287	53,532
1 UNIV OF WISCONSIN-MADISON	95,436	48,217	16,527	0	3,331	1,489	22,652	3,220
2 U OF CAL SAN DIEGO	76,898	69,052	385	0	3,293E	0	4,268	0
3 UNIVERSITY OF MICHIGAN	74,553	46,671	2,727	0	3,074	4,202	16,017	1,862
4 UNIVERSITY OF MINNESOTA	69,055	41,827	11,346	0	3,347	1,515	7,957	3,663
5 UNIVERSITY OF WASHINGTON	65,947	55,260	3,767	1,283	2,184	898	574	1,981
6 U OF CAL BERKELEY	65,087	46,648	657	0	2,466E	0	15,316	0
7 U OF CAL LOS ANGELES	57,831	47,326	120	0	3,884E	133E	6,368	0
8 UNIV ILLINOIS URBANA	51,203	32,846	1,189	440	742	771	14,356	859
9 U OF CAL SAN FRANCISCO	43,261	36,450	237	0	3,590E	644E	2,340	0
10 UNIV OF TEXAS AT AUSTIN	41,754	23,830	2,065	109	1,377	583	11,595	2,195
TOTAL 1ST 10 INSTS.	641,625	448,107	39,000	1,832	27,228	10,235	101,443	13,780
11 U OF CAL DAVIS	40,707	20,573	2,000	0	874E	1,513E	15,747	0
12 TEXAS A & M UNIVERSITY	39,349	16,180	17,557	0	2,256	2,888	0	468
13 OHIO STATE UNIVERSITY	38,727	21,116	8,953	0	1,568	2,448	1,937	2,685
14 MICHIGAN STATE UNIVERSITY	38,568	24,257	7,880	334	2,862	2,114	0	1,121
15 UNIVERSITY OF FLORIDA	36,149	14,514	2,140	25	812	1,152	16,995	511
16 PURDUE UNIV ALL CAMPUSES	35,109	20,276	5,636	37	632	1,625	6,907	0
17 UNIVERSITY OF GEORGIA	33,076	10,399	21,519	1	296	861	0	0
18 UNIVERSITY OF COLORADO	30,825	25,313	419	99	2,362	654	2,084	894
19 PENNSYLVANIA STATE UNIV	30,375	16,105	3,023	6	295	1,515	8,215	1,416
20 UNIV OF NC AT CHAPEL HILL	30,136	24,825	2,563	0	1,348	1,400	0	0
TOTAL 1ST 20 INSTS.	994,646	641,667	110,684	2,334	39,553	26,205	153,328	20,875
21 UNIVERSITY OF ARIZONA	29,761	14,902	9,560	399	667	1,675	1,276	1,282
22 IOWA ST U OF SCI & TECH	26,348	7,235	8,075	249	108	1,432	8,125	1,042
23 RUTGERS THE STATE UNIV	25,028	10,484	5,666	25	265	0	8,057	1,141
24 N C STATE UNIV AT RALEIGH	25,578	9,496	13,108	75	249	1,502	976	172
25 UNIVERSITY OF HAWAII	24,596	15,540	7,808	126	610	160	0	352
26 UNIV OF MISSOURI COLUMBIA	24,538	8,796	6,089	0	213	574	8,043	823
27 COLORADO STATE UNIVERSITY	24,286	17,902	4,536	45	349	1,157	289	10
28 OREGON STATE UNIVERSITY	24,181	12,600	6,307	68	1,050	1,173	496	1,485
29 UNIVERSITY OF UTAH	22,777	20,504	361	0	633	412	867	0
30 UNIV OF MD COLLEGE PARK	21,431	13,380	6,069	0	18	1,085	879	0
TOTAL 1ST 30 INSTS.	1,243,780	778,506	178,263	3,321	43,795	35,375	182,338	27,182
31 UNIVERSITY OF ALASKA	21,139	12,047	923	50	315	1,740	5,620	444
32 UNIVERSITY OF IOWA	20,128	17,555	129	6	658	273	1,356	153
33 UNIVERSITY OF CONNECTICUT	18,466	8,819	291	11	594	220	8,076	455
34 VIRGINIA POLYTECHNIC INST	18,089	7,547	7,610	132	234	1,728	501	337
35 UNIV OF NEBRASKA - LNCLN	18,084	4,460	9,019	248	58	480	3,662	157
36 UNIVERSITY OF PITTSBURGH	17,463	14,742	28	20	986	359	1,060	268
37 CUNY MT SINAI SCH OF MED	17,234	15,492	71	573	1,058	69	1,028	923
38 U OF TEX M D ANDERSON HOS	17,216	10,692	0	0	556	0	5,663	305
39 GEORGIA INSTITUTE OF TECH	17,109	9,184	366	514	40	1,564	5,002	439
40 U OF CAL RIVERSIDE	17,024	6,702	1,066	0	770E	0	8,486	0
TOTAL 1ST 40 INSTS.	1,425,732	878,744	197,766	4,875	49,064	41,828	222,792	30,663
41 WASHINGTON STATE UNIV	16,534	4,100	9,786E	258	123	2,611E	0	0
42 TEMPLE UNIVERSITY	16,461	11,272	212	0	986	70	2,266	1,653
43 UNIV ALABAMA BIRMINGHAM	16,324	15,134	0	0	467	461	0	262
44 MISSISSIPPI STATE UNIV	15,624	4,099	6,574	398	82	311	4,194	166
45 UNIVERSITY OF CINCINNATI	15,473	8,103	41	321	741	847	3,085	2,333
46 UNIV OF KENTUCKY ALL CAM	15,269	7,851	3,744	0	93	245	3,517	119
47 OKLAHOMA STATE UNIVERSITY	15,167	6,216	5,796	0	61	1,463	1,631	0
48 UNIVERSITY OF KANSAS	15,142	10,726	905	17	285	197	2,905	107
49 KANSAS ST UNIVERSITY	14,561	5,611	6,067	5	104	408	2,363	3
50 SUNY BUFFALO	14,391	13,485	153	0	459	77	33	184
TOTAL 1ST 50 INSTS.	1,580,878	965,343	230,744	5,041	52,356	48,518	242,786	35,490

SEE FOOTNOTES AT END OF TABLE.

Table B-19.
CONTINUED

R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
51 FLORIDA STATE UNIVERSITY	14,320	8,428	2,148	0	359	358	3,027	0
52 UNIVERSITY OF VIRGINIA	14,192	10,616	51	0	552	486	2,145	243
53 LSU CTR AGR SCI/RUR DEV	13,111	521	108	0	0	0	11,406	1,076
54 AUBURN UNIVERSITY	12,049	4,230	4,486	18	0	524	2,791	0
55 UNIV OF MASS AT AMHERST	11,990	7,398	2,402	5	512	490	999	184
56 UNIVERSITY OF IDAHO	11,622	4,842	5,056	7	19	636	0	1,062
57 SUNY UPSTATE MEDICAL CTR	11,591	7,610	0	40	236	99	356	3,290
58 UTAH STATE UNIVERSITY	11,591	8,375	2,134	0	274	201	39	568
59 CLEMSON UNIVERSITY	11,564	2,932	7,561	1	89	470	373	138
60 U OF CAL IRVINE	11,229	9,987	477	0	701E	176E	286	0
TOTAL 1ST 60 INSTS.	1,704,137	1,030,482	254,667	5,672	55,097	51,960	264,208	42,051
61 UNIV OF VT & ST AGRIC COL	10,527	7,240	909	0	561	164	1,466	185
62 INDIANA UNIV-BLOOMINGTON	10,289	8,896	265	22	222	245	532	107
63 U PUERTO RICO MAYAGUEZ	10,049	2,190	5,542	0	0	8	1,309	0
64 SUNY STONY BROOK	10,000	8,662	28	80	900	200	0	104
65 NEW MEXICO STATE UNIV	9,966	6,746	331	41	0	561	238	49
66 UNIVERSITY OF ARKANSAS	9,926	2,773	6,520	0	28	394	0	211
67 UNIV OF MD BALTIMORE	9,892	8,445	183	10	192	255	68	739
68 U TEX GALVESTON MED BRAN	9,099	5,841	1,402	0	1,029	397	0	430
69 SUNY DOWNSTATE MED CTR	8,885	7,336	14	198	366	72	0	899
70 UNIVERSITY OF NEW MEXICO	8,844	7,222	888	24	386	279	44	0
TOTAL 1ST 70 INSTS.	1,801,614	1,098,854	270,749	6,033	58,781	54,565	267,867	44,775
71 WAYNE STATE UNIVERSITY	8,811	5,457	263	116	494	475	1,795	311
72 INDIANA UNIVERSITY-PURDUE	8,748	6,102	42	0	656	532	1,046	368
73 UNIV OF MAINE ORONO	8,489	3,968	581	12	255	574	2,946	173
74 U TEX HLTH SCI CTR DALLAS	8,436	6,898	0	0	875	538	0	125
75 UNIVERSITY OF WYOMING	7,728	5,069	1,245	842	7	565	0	0
76 UNIVERSITY OF OREGON	7,690	7,506	30	0	39	25	77	13
77 MONTANA STATE UNIVERSITY	7,622	3,060	161	0	0	643	3,758	0
78 U TENN MED UNITS MEMPHIS	7,444	6,244	212	0	298	262	0	428
79 WEST VIRGINIA UNIVERSITY	7,418	5,469	1,419	0	102	103	84	241
80 VIRGINIA COMMONWLTH UNIV	7,315	5,436	93	0	337	288	613	548
TOTAL 1ST 80 INSTS.	1,881,315	1,154,063	274,695	7,023	61,824	58,540	278,188	46,982
81 NORTH DAKOTA STATE UNIV	6,856	1,665	3,393	0	42	876	880	0
82 UNIVERSITY OF DELAWARE	6,783	3,689	1,087	0	477	855	675	0
83 U TENN INST OF AGRICULT	6,748	2,279	2,660	0	0	0	1,809	0
84 LA ST U BATON ROUGE	6,740	3,282	426	0	0	0	2,629	463
85 UNIV OF RHODE ISLAND	6,738	5,460	113	1,092	0	0	71	0
86 U TEX MED SCH HOUSTON	6,249	5,243	117	0	470	0	419	0
87 U OF ILL MEDICAL CENTER	6,216	3,747	1,492	49	764	113	121	230
88 UNIV OF MISSISSIPPI	6,124	3,706	762	0	277	102	1,146	71
89 U TENNESSEE KNOXVILLE	6,042	5,326	173	24	97	399	0	23
90 U OF NEB MED C AT OMAHA	5,665	3,599	71	10	395	278	557	755
TOTAL 1ST 90 INSTS.	1,945,476	1,191,499	284,691	8,198	64,346	61,223	286,495	48,524
91 MEDICAL COLL OF GEORGIA	5,664	2,764	543	0	373	198	1,750	36
92 COL OF MED & DENT OF N J	5,659	4,385	202	0	700	194	33	145
93 U OF OREGON MED SCHOOL	5,508	4,239	18	0	869	35	0	297
94 U OF CAL SANTA BARBARA	5,452	4,565	21	0	497E	0	369	0
95 UNIV OKLAHOMA	5,387	4,687	191	0	160	36	176	137
96 TEXAS TECH UNIVERSITY	5,127	1,514	2,364	7	260	611	4	367
97 UNIVERSITY OF HOUSTON	4,782	4,107	237	3	334	27	69	5
98 UNIVERSITY OF LOUISVILLE	4,776	2,627	491	24	597	228	653	158
99 SOUTH DAKOTA STATE UNIV	4,771	1,645	75	2	4	158	2,871	16
100 U TEX HLTH SCI CR SAN ANT	4,593	3,658	20	13	424	210	67	201
TOTAL 1ST 100 INSTS.	1,997,197	1,226,240	288,853	8,247	68,564	62,920	292,487	49,886
TOTAL ALL OTHER INSTS.	182,808	114,541	20,072	1,711	7,802	7,237	27,800	3,646

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-20.

R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
UNITED STATES TOTAL	1,213,131	943,158	27,520	5,470	89,222	41,403	69,672	36,646
1 MASS INST OF TECHNOLOGY	84,068	69,599	598	203	3,141	4,298	1,135	5,694
2 COLUMBIA UNIV MAIN DIV	68,197	50,852	137	262	8,912	575	3,121	4,538
3 STANFORD UNIVERSITY	66,876	59,640	78	0	2,814	71	3,259	1,014
4 HARVARD UNIVERSITY	64,176	49,667	251	0	5,908	1,341	5,001	2,008
5 CORNELL UNIVERSITY	61,545	36,841	14,857	0	2,502	1,943	3,581	1,821
6 UNIVERSITY OF CHICAGO	58,766	45,096	998	530	3,713	343	6,563	1,523
7 JOHNS HOPKINS UNIVERSITY	56,471	45,787	1,535	129	6,431	1,533	940	16
8 YALE UNIVERSITY	41,032	35,255	487	0	2,266	170	1,820	1,034
9 UNIV OF PENNSYLVANIA	41,006	34,762	387	743	2,404	1,507	195	1,008
10 NEW YORK UNIVERSITY	40,976	31,724	398	745	3,787	1,729	423	2,200
TOTAL 1ST 10 INSTS.	583,713	459,213	19,826	2,612	41,858	13,310	26,038	20,856
11 UNIVERSITY OF ROCHESTER	36,848	26,852	262	696	2,101	1,955	5,504	1,278
12 WASHINGTON UNIV ST LOUIS	30,165	27,101	243	0	1,059	738	0	1,024
13 UNIV OF STHRN CALIFORNIA	29,183	24,921	97	180	2,306	1,679	0	0
14 YESHIVA UNIVERSITY	28,502	23,272	1,200	0	4,030	0	0	0
15 UNIVERSITY OF MIAMI	28,101	20,819	298	1	1,118	1,054	3,562	1,249
16 ROCKEFELLER UNIVERSITY	27,446	11,503	364	159	3,568	373	11,143	336
17 DUKE UNIVERSITY	26,791	23,365	324	56	1,994	362	466	224
18 CALIFORNIA INST OF TECH	22,398	19,262	167	13	2,304	122	124	326
19 CASE WESTERN RESERVE UNIV	21,697	17,480	273	147	2,305	887	120	505
20 NORTHWESTERN UNIVERSITY	21,097	15,841	178	0	1,792	637	1,624	1,053
TOTAL 1ST 20 INSTS.	857,941	669,579	23,252	4,064	64,495	21,117	48,581	26,853
21 PRINCETON UNIVERSITY	19,737	14,918	32	0	703	387	3,682	10
22 BAYLOR COLLEGE OF MED	19,643	18,218	0	1	1,350	124	0	50
23 WOODS HOLE OCNGRPHIC INST	17,196	14,946	75	0	770	143	740	522
24 BOSTON UNIVERSITY	15,944	13,955	608	48	844	472	20	17
25 CARNEGIE-MELLON UNIV	15,443	9,568	220	0	574	3,511	1,300	70
26 VANDERBILT UNIVERSITY	15,171	13,341	28	17	572	333	781	99
27 GEORGE WASHINGTON UNIV	14,557	13,011	0	18	551	111	772	90
28 TULANE UNIVERSITY	12,028	7,734	244	1	1,290	756	1,093	910
29 EMORY UNIVERSITY	11,048	9,694	0	0	444	617	34	257
30 GEORGETOWN UNIVERSITY	10,944	5,448	2	0	1,439	145	1,814	2,096
TOTAL 1ST 30 INSTS.	1,009,650	730,852	24,461	4,149	73,041	27,516	58,817	30,974
31 ST LOUIS UNIV	9,269	8,233	70	8	599	0	0	357
32 BROWN UNIVERSITY	8,975	8,443	22	35	430	86	0	249
33 UNIVERSITY OF DENVER	7,880	6,329	124	126	411	628	133	119
34 TUFTS UNIVERSITY	7,128	6,016	23	70	632	278	86	23
35 BRANDEIS UNIVERSITY	7,033	6,438	28	0	569	0	0	0
36 UNIVERSITY OF DAYTON	7,024	6,548	14	12	197	253	0	0
37 ALBANY MED COL OF UNION U	6,939	4,015	179	0	544	1,481	0	725
38 THOM JEFFERSON UNIV HOSP	6,915	5,419	0	0	1,340	156	0	0
39 SYRACUSE UNIVERSITY	6,659	5,780	169	0	358	317	35	0
40 RICE UNIVERSITY	6,591	5,499	0	0	1,092	0	0	0
TOTAL 1ST 40 INSTS.	1,084,063	853,114	25,098	4,410	79,210	30,715	59,071	32,445
41 NEW YORK MEDICAL COLLEGE	6,056	4,757	31	435	630	174	0	9
42 THE MED COLL OF WISCONSIN	5,924	4,006	2	0	323	504	580	308
43 DARTMOUTH COLLEGE	5,690	5,105	27	0	268	44	234	2
44 RENSSELAER POLY INST	5,638	4,672	221	0	19	421	262	43
45 LEHIGH UNIVERSITY	5,054	3,235	429	44	108	662	571	0
46 UNIVERSITY OF NOTRE DAME	5,018	4,178	29	0	454	0	157	0
47 RUSH MEDICAL COLLEGE	4,097	3,149	92	0	296	27	92	439
48 BOSTON COLLEGE	3,872	2,576	40	2	82	15	1,157	0
49 WAKE FOREST UNIVERSITY	3,765	3,069	37	0	214	200	21	224
50 POLYTECHNIC INST OF N Y	3,501	1,337	15	0	0	151	0	0
TOTAL 1ST 50 INSTS.	1,132,678	891,400	26,020	4,916	81,806	32,921	62,135	33,470

SEE FOOTNOTES AT END OF TABLE.

TABLE B-20.
CONTINUED

R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND SOURCE OF FUNDS: FISCAL YEAR 1979

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	FEDERAL GOVT.	STATE GOVT.	LOCAL GOVT.	FUNDS & HEALTH AGENCIES	INDUSTRY	INSTITUTIONS' OWN FUNDS	OTHER
51 STEVENS INSTITUTE OF TECH	3,150	2,060	22	28	0	389	159	0
52 BRIGHAM YOUNG UNIVERSITY	3,132	1,477	392	0	1307	7428	4386	2866
53 HOWARD UNIVERSITY	3,069	2,612	0	0	336	82	0	39
54 CATHOLIC-UNIV OF AMERICA	2,930	2,332	0	0	561	2	236	0
55 NORTHEASTERN UNIVERSITY	2,753	2,087	60	0	130	11	260	204
56 DREXEL UNIVERSITY	2,442	1,660	42	33	0	271	437	0
57 AMERICAN UNIVERSITY THE	2,406	2,364	0	0	44	0	0	0
58 HAHNEMAN MEDICAL COLLEGE	2,206	1,230	0	20	310	313	215	152
59 THE MED COLL OF PENNA	2,103	1,742	0	0	206	257	0	20
60 LOYOLA UNIVERSITY	2,025	1,764	1	0	148	65	0	36
TOTAL 1ST 60 INSTS.	1,158,847	910,738	26,194	5,003	83,291	33,554	63,860	34,207
61 WORCESTER POLY INSTITUTE	1,904	402	21	0	0	1,511	29	0
62 INSTITUTE PAPER CHEMISTRY	1,822	132	25	0	0	602	898	165
63 SOUTHERN METHODIST UNIV	1,780	1,130	26	76	112	222	140	65
64 ILLINOIS INST OF TECH	1,7..	1,524	93	0	45	112	0	0
65 LOMA LINDA UNIVERSITY	1,751	1,334	0	0	166	249	0	0
66 UNIVERSITY OF THE PACIFIC	1,702	1,390	0	43	144	83	10	0
67 TEXAS CHRISTIAN UNIV	1,643	1,316	18	0	187	27	84	11
68 GEO PEABODY COL TEACHERS	1,494	1,284	187	0	26	0	0	0
69 NOVA UNIVERSITY	1,353	769	17	87	46	5	0	438
70 NEW ENGLAND INSTITUTE	1,339	871	0	0	305	29	250	484
TOTAL 1ST 70 INSTS.	1,175,459	920,278	26,561	5,263	84,301	38,395	65,271	35,370
71 MCHARRY MEDICAL COLLEGE	1,252	929	16	0	296	0	15	0
72 ANTIOCH COLLEGE	1,250I	1,195I	41	11	21I	81	16I	5I
73 TRINITY UNIVERSITY	1,169	732	49	0	106	0	265	17
74 CLARKSON COL OF TECH	1,166	900	0	0	55E	605	98	55E
75 WENTWORTH INST/COLLEGE	1,118	1,015	0	0	44	37	22	0
76 TUSKEGEE INSTITUTE	1,092	1,026	0	0	17	9	26	14
77 FORDHAM UNIVERSITY	1,087	888	3	67	10	65	54	0
78 CREIGHTON UNIVERSITY	1,085	827	0	0	106	114	0	38
79 WESLEYAN UNIVERSITY	1,042	707	74	1	69	11	157	23
80 GALLAUDET COLLEGE	874	280	0	0	0	0	594	0
TOTAL 1ST 80 INSTS.	1,186,596	928,773	26,727	5,391	85,025	38,099	66,518	35,522
81 MARQUETTE UNIVERSITY	869	669	8	43	6	16	133	24
82 ROCHESTER INST TECHNOLOGY	788	194	0	0	353	0	281	0
83 UNIVERSITY OF SANTA CLARA	763	737	0	0	0	8	0	18
84 UNIVERSITY OF TULSA	759	177	0	0	0	273	309	0
85 NEW SCH FOR SOC RESEARCH	682I	192I	57I	12I	160I	85I	140I	70I
86 CLAREMONT GRAD SCHOOL	671	402	20	0	0	0	0	249
87 U HLTH SCI/CHCGO MED SCH	665	401	35	0	93	16	110	10
88 UNIV OF SAN FRANCISCO	646	537	53E	12E	11E	4E	22E	7E
89 FLORIDA INST OF TECH	639	544	4	31	120	45	80	3
90 NEW YORK INST TECH	619	38	0	0	215	0	366	0
TOTAL 1ST 90 INSTS.	1,193,697	932,384	26,904	5,400	85,989	39,146	67,971	35,903
91 COLUMBIA UNIV TCHRS COL	614	224	44	0	120	165	28E	33
92 CLARK UNIVERSITY	610	449	0	0	161	0	0	0
93 AMHERST COLLEGE	593	557	0	0	36	0	0	0
94 ADELPHI UNIV	585	287	0	0	263	0	35	0
95 INST TEXTILE TECHNOLOGY	550	0	0	0	0	550	0	0
96 OHIO DOMINICAN COLLEGE	500	0	0	0	500	0	0	0
97 XAVIER UNIVERSITY	475	229	48	11	94	49	32	18
98 WRIGHT INSTITUTE	458I	232I	25I	5I	68I	36I	62I	30I
99 FAIRLEIGH DICKINSON UNIV	454	239	14	0	7	176	18	0
100 EMMANUEL COLLEGE	446	446	0	0	0	0	0	0
TOTAL 1ST 100 INSTS.	1,198,982	935,043	27,035	5,426	87,238	40,122	68,146	35,982
TOTAL ALL OTHER INSTS.	14,149	8,135	485	54	1,964	1,281	1,520	604

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-21.

R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	3,393,136	380,522	350,340	255,033	84,931	1,895,008	79,880	249,929	97,493
1 UNIV OF WISCONSIN-MADISON	95,436	5,061	10,345	9,901	2,320	44,892	4,177	12,756	5,984
2 MASS INST OF TECHNOLOGY	84,668	31,002	22,572	5,240	7,448	13,422	1,136	3,219	625
3 U OF CAL SAN DIEGO	76,898	2,144	9,929	40,966E	424	21,983	596	324	532
4 UNIVERSITY OF MICHIGAN	74,553	12,766	5,419	5,677	1,649	30,917	5,945	14,180	0
5 UNIVERSITY OF MINNESOTA	69,655	5,444	4,175	790	776	50,752	1,326	4,827	1,565
6 COLUMBIA UNIV MAIN DIV	68,197	5,407	3,551	10,428	480	38,243	450	4,612	5,026
7 STANFORD UNIVERSITY	66,876	12,044	10,641	2,677	3,202	29,674	900	5,301	2,437
8 UNIVERSITY OF WASHINGTON	65,947	4,501	4,227	5,025	612	43,620	917	2,214	4,831
9 U OF CAL BERKELEY	65,087	11,449	11,777	1,804	1,347	28,732	1,871	7,281	826E
10 HARVARD UNIVERSITY	64,176	904	9,127	3,505	739	39,652	1,162	7,490	1,596
TOTAL 1ST 10 INSTS.	731,493	90,722	89,763	86,019	18,997	341,887	18,481	62,204	23,420
11 CORNELL UNIVERSITY	61,545	6,303	9,892	486	854	39,712	159	3,983	156
12 UNIVERSITY OF CHICAGO	58,766	0	9,228	1,853	957	42,075	617	3,836	0
13 U OF CAL LOS ANGELES	57,831	5,687	5,222	3,884	948	35,097	3,115	3,252	626
14 JOHNS HOPKINS UNIVERSITY	56,471	701	2,407	4,624	104	45,038	474	2,282	761
15 UNIV ILLINOIS URBANA	51,203	11,669	6,410	3,861	3,553	12,535	1,954	5,085	6,136
16 U OF CAL SAN FRANCISCO	43,261	0	0	0	0	43,261	0	0	0
17 UNIV OF TEXAS AT AUSTIN	41,754	6,443	8,330	3,758	1,787	4,393	2,083	4,731	10,229
18 YALE UNIVERSITY	41,032	1,503	4,829	788	452	30,166	943	2,356	0
19 UNIV OF PENNSYLVANIA	41,006	2,119	4,465	32	1,195	30,907	325	1,963	0
20 NEW YORK UNIVERSITY	40,976	983	1,923	297	3,613	30,044	571	3,280	263
TOTAL 1ST 20 INSTS.	1,225,338	126,210	142,469	105,597	32,462	655,115	28,922	92,972	41,591
21 U OF CAL DAVIS	40,707	3,202	1,037	106	29	34,136	80	1,298	819E
22 TEXAS A & M UNIVERSITY	39,649	9,084	4,221	4,925	183	19,589	0	661	686
23 UNIVERSITY OF ROCHESTER	38,648	2,242	4,921	97	301	27,520	915	701	1,151
24 OHIO STATE UNIVERSITY	38,727	7,717	2,478	852	774	21,842	206	3,909	949
25 MICHIGAN STATE UNIVERSITY	38,368	714	3,073	1,747	429	24,174	823	6,473	1,165
26 UNIVERSITY OF FLORIDA	36,149	4,363	884	893	957	27,963	217	872	0
27 PURDUE UNIV ALL CAMPUSES	35,109	9,501	3,270	372	714	17,819	689	2,522	222
28 UNIVERSITY OF GEORGIA	33,076	727	754	1,005	596	28,092	289	1,613	0
29 UNIVERSITY OF COLORADO	30,825	1,591	8,725	1,131	753	15,878	1,291	1,045	411
30 PENNSYLVANIA STATE UNIV	30,575	4,723	3,241	5,145	166	8,285	941	5,289	2,965
TOTAL 1ST 30 INSTS.	1,587,071	171,074	175,073	121,840	37,384	880,413	33,973	117,355	49,959
31 WASHINGTON UNIV ST LOUIS	30,165	4,082	1,358	24	116	22,458	221	401	1,505
32 UNIV OF NC AT CHAPEL HILL	30,136	0	1,499	2,345	2,530	15,463	404	3,715	4,374
33 UNIVERSITY OF ARIZONA	29,761	1,600	7,962	3,703	186	10,792	860	2,603	2,055
34 UNIV OF STHRN CALIFORNIA	29,188	6,899	2,166	1,860	111	16,116	372	2,657	0
35 YESHIVA UNIVERSITY	28,502	0	1,102	0	352	26,247	751	50	0
36 UNIVERSITY OF MIAMI	28,101	1,425	663	5,903	21	18,717	330	780	202
37 ROCKEFELLER UNIVERSITY	27,446	0	1,430	0	571	22,662	2,783	0	0
38 DUKE UNIVERSITY	26,791	600	1,740	776	142	21,850	368	1,318	0
39 IOWA ST U OF SCI & TECH	26,346	4,345	1,655	78	1,384	14,937	129	2,584	1,236
40 RUTGERS THE STATE UNIV	25,688	1,364	3,213	3,025	1,500	10,478	1,907	4,025	126
TOTAL 1ST 40 INSTS.	1,869,140	191,589	196,861	139,209	44,405	1,060,135	42,098	135,488	59,457
41 N C STATE UNIV AT RALEIGH	25,378	5,013	402	2,200	450	18,538	180	855	940
42 UNIVERSITY OF HAWAII	24,996	1,904	3,015	6,486	177	9,632	177	1,482	1,723
43 UNIV OF MISSOURI COLUMBIA	24,538	1,238	152	413	68	20,736	319	1,479	133
44 COLORADO STATE UNIVERSITY	24,268	5,601	955	1,739	265	12,625	230	2,641	232
45 OREGON STATE UNIVERSITY	24,181	1,841	891	5,162	347	14,453	0	976	711
46 UNIVERSITY OF UTAH	22,777	2,467	2,154	3,520	1,466	11,554	399	996	214
47 CALIFORNIA INST OF TECH	22,398	5,302	9,108	3,369	241	3,840	0	403	67
48 CASE WESTERN RESERVE UNIV	21,697	5,935	2,458	356	99	11,806	230	813	0
49 UNIV OF MD COLLEGE PARK	21,431	1,297	7,205	306	2,804	6,288	339	784	408
50 UNIVERSITY OF ALASKA	21,139	291	2,345	13,515	100	5,610	0	1,940	18
TOTAL 1ST 50 INSTS.	2,101,762	222,078	225,746	172,395	50,520	1,175,232	43,972	147,917	63,903

SEE FOOTNOTES AT END OF TABLE.

TABLE B-21.
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R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGI-NEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL	MATHE-MATICS	LIFE SCIENCES	PSYCHO-LOGY	SOCIAL SCIENCES	OTHER SCIENC
51 NORTHWESTERN UNIVERSITY	21,097	2,240	2,172	168	384	12,006	535	1,137	2,45
52 UNIVERSITY OF IOWA	20,128	363	3,237	[illegible] 54	160	14,615	178	1,019	
53 PRINCETON UNIVERSITY	19,737	5,238	6,471	1,082	1,286	2,276	900	1,904	
54 BAYLOR COLLEGE OF MED	19,643	0	0	0	0	19,643	0	0	
55 UNIVERSITY OF CONNECTICUT	18,466	2,350	779	1,158	1,024	10,631	499	2,025	
56 VIRGINIA POLYTECHNIC INST	18,089	3,410	669	1,247	397	9,418	60	1,257	1,62
57 UNIV OF NEBRASKA - LNCLN	18,084	1,910	660	1,499	21	13,213	227	954	
58 UNIVERSITY OF PITTSBURGH	17,463	1,096	3,394	128	99	12,056	488	200	
59 CUNY MT SINAI SCH OF MED	17,234	0	0	0	0	17,234	0	0	
60 U OF TEX M D ANDERSON HOS	17,216	0	782	0	1,479	14,955	0	0	
TOTAL 1ST 60 INSTS.	2,288,920	238,293	244,110	178,331	59,350	1,301,481	46,957	136,413	87,98
61 WOODS HOLE OCNGRPHIC INST	17,196	2,946	0	14,280	0	0	0	0	
62 GEORGIA INSTITUTE OF TECH	17,109	10,334	3,075	719	980	318	59	1,084	54
63 U OF CAL RIVERSIDE	17,024	1,451	1,056	2,278	399	11,258	295	139	45
64 WASHINGTON STATE UNIV	16,534	3,595	778	516	94	10,594	153	804	
65 TEMPLE UNIVERSITY	16,461	52	1,214	5	27	12,373	237	2,366	18
66 UNIV ALABAMA BIRMINGHAM	16,324	21	24	127	340	15,612	31	49	12
67 BOSTON UNIVERSITY	15,944	143	740	0	69	13,053	167	143	1,62
68 MISSISSIPPI STATE UNIV	15,824	1,040	102	7	54	13,853	0	768	
69 UNIVERSITY OF CINCINNATI	15,473	1,657	393	79	50	12,429	74	262	54
70 CARNEGIE-MELLON UNIV	15,443	5,096	5,605	0	2,146	642	538	1,416	
TOTAL 1ST 70 INSTS.	2,452,252	264,378	257,097	196,336	59,409	1,391,613	48,511	103,446	71,46
71 UNIV OF KENTUCKY ALL CAM	15,269	2,471	667	8	34	9,392	54	1,048	1,59
72 VANDERBILT UNIVERSITY	15,171	566	829	1	34	13,065	293	383	
73 OKLAHOMA STATE UNIVERSITY	15,167	3,305	741	39	16	7,739	7	1,763	1,55
74 UNIVERSITY OF KANSAS	15,142	1,972	719	2,103	131	5,685	4,078	465	38
75 KANSAS ST UNIVERSITY	14,561	1,110	408	1,220	158	10,373	67	520	69
76 GEORGE WASHINGTON UNIV	14,257	2,249	67	24	3,410	5,817	350	1,903	73
77 SUNY BUFFALO	14,091	991	708	90	996	10,428	134	1,020	2
78 FLORIDA STATE UNIVERSITY	14,020	0	2,519	2,068	1,928	2,229	537	5,339	
79 UNIVERSITY OF VIRGINIA	14,292	3,207	1,843	983	282	7,292	243	431	1
80 LSU CTR AGR SCI/RUR DEV	13,111	402	53	0	90	11,823	0	743	
TOTAL 1ST 80 INSTS.	2,598,233	280,251	265,651	202,878	66,188	1,475,456	54,274	177,061	76,47
81 AUBURN UNIVERSITY	12,049	1,464	0	1,014	0	9,063	0	508	
82 TULANE UNIVERSITY	12,028	622	148	7	177	10,543	199	167	16
83 UNIV OF MASS AT AMHERST	11,990	1,509	2,326	1,711	405	5,323	721	1,911	8
84 UNIVERSITY OF IDAHO	11,622	878	209	232	2	7,679	0	775	1,84
85 SUNY UPSTATE MEDICAL CTR	11,591	0	0	0	0	11,591	0	0	
86 UTAH STATE UNIVERSITY	11,591	4,266	54	1,313	53	5,388	14	431	1
87 CLEMSON UNIVERSITY	11,564	2,234	102	453	57	8,426	56	56	
88 U OF CAL IRVINE	11,529	496	2,600	0	69	7,401	0	763	
89 EMORY UNIVERSITY	11,046	0	409	2	11	10,386	76	143	1
90 GEORGETOWN UNIVERSITY	10,944	0	517	0	0	7,250	12	251	2,91
TOTAL 1ST 90 INSTS.	2,713,787	291,718	272,016	207,610	66,962	1,550,506	55,332	182,066	81,57
91 UNIV OF VT & ST AGRIC COL	10,527	156	292	156	1	9,242	442	171	6
92 INDIANA UNIV-BLOOMINGTON	10,289	0	3,752	104	226	1,578	439	2,109	2,01
93 U PUERTO RICO MAYAGUEZ	10,049	39	0	418	0	9,592	0	0	
94 SUNY STONY BROOK	10,000	1,871	2,098	847	530	3,506	537	369	24
95 NEW MEXICO STATE UNIV	9,966	4,356	548	581	2,806	640	160	875	
96 UNIVERSITY OF ARKANSAS	9,926	724	301	344	0	7,470	1	1,086	
97 UNIV OF MD BALTIMORE	9,892	0	0	0	0	9,837	0	55	
98 ST LOUIS UNIV	9,269	440	151	318	1	7,808	101	500	
99 U TEX GALVESTON MED BRAN	9,099	0	0	0	0	9,099	0	0	
100 BROWN UNIVERSITY	8,975	1,740	1,631	771	1,283	2,236	409	845	
TOTAL 1ST 100 INSTS.	2,811,779	301,214	280,769	211,209	71,911	1,617,514	57,481	187,876	83,90

SEE FOOTNOTES AT END OF TABLE.

TABLE B-21.
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R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCE
101 SUNY DOWNSTATE MED CTR	8,885	0	0	0	0	8,885	0	0	
102 UNIVERSITY OF NEW MEXICO	8,844	2,343	327	428	36	5,041	214	331	2
103 WAYNE STATE UNIVERSITY	8,811	1,138	1,217	24	56	4,835	95	717	62
104 INDIANA UNIVERSITY-PURDUE	8,748	2	5	0	0	8,715	1	24	
105 UNIV OF MAINE ORONO	8,489	916	300	1,259	7	4,514	163	1,246	27
106 U TEX HLTH SCI CTR DALLAS	8,436	0	0	0	0	8,436	0	0	
107 UNIVERSITY OF DENVER	7,880	2,697	1,132	190	139	213	416	3,038	3
108 UNIVERSITY OF WYOMING	7,726	160	1,570	1,716	29	3,815	200	237	
109 UNIVERSITY OF OREGON	7,690	0	1,460	258	87	1,316	547	3,921	8
110 MONTANA STATE UNIVERSITY	7,622	1,090	565	116	12	5,525	0	314	
TOTAL 1ST 110 INSTS.	2,894,912	309,610	287,265	215,242	72,493	1,008,009	59,117	197,724	85,12
111 U TENN MED UNITS MEMPHIS	7,444	0	0	0	0	7,444	0	0	
112 WEST VIRGINIA UNIVERSITY	7,418	2,257	42	42	1	4,594	21	481	
113 VIRGINIA COMMONWLTH UNIV	7,315	0	0	0	0	7,315	0	0	
114 TUFTS UNIVERSITY	7,128	261	366	0	4	5,889	166	414	2
115 BRANDEIS UNIVERSITY	7,033	0	1,303	0	215	3,001	23	1,973	52
116 UNIVERSITY OF DAYTON	7,024	3,636	1,428	0	1,021	577	0	12	33
117 ALBANY MED COL OF UNION U	6,939	0	0	0	0	6,939	0	0	
118 THOM JEFFERSON UNIV HOSP	6,915	0	0	0	0	6,915	0	0	
119 NORTH DAKOTA STATE UNIV	6,826	193	174	258	0	6,134	0	417	
120 UNIVERSITY OF DELAWARE	6,783	2,037	915	1,591	99	1,746	91	404	
TOTAL 1ST 120 INSTS.	2,985,767	318,044	291,493	217,053	73,471	1,719,163	59,418	201,125	86,03
121 U TENN INST OF AGRICULT	6,748	0	0	0	0	6,748	0	0	
122 LA ST U BATON ROUGE	6,740	1,151	1,957	2,175	266	402	222	405	
123 UNIV OF RHODE ISLAND	6,738	786	0	4,599	0	587	0	749	3
124 SYRACUSE UNIVERSITY	6,659	2,364	941	10	439	726	86	1,954	11
125 RICE UNIVERSITY	6,591	1,265	3,003	519	383	1,163	2	215	8
126 U TEX MED SCH HOUSTON	6,249	0	0	0	0	6,249	0	0	
127 U OF ILL MEDICAL CENTER	6,216	0	27	0	0	6,189	0	0	
128 UNIV OF MISSISSIPPI	6,124	249	199	87	40	4,417	54	984	3
129 NEW YORK MEDICAL COLLEGE	6,056	0	0	0	0	6,056	0	0	
130 U TENNESSEE KNOXVILLE	6,042	3,115	978	106	50	879	135	541	12
TOTAL 1ST 130 INSTS.	3,029,930	326,974	298,598	224,589	74,771	1,752,299	59,979	205,973	86,42
131 THE MED COLL OF WISCONSIN	5,924	0	0	0	0	5,924	0	0	
132 DARTMOUTH COLLEGE	5,890	513	440	331	79	3,891	150	105	18
133 U OF NEB MED C AT OMAHA	5,865	0	0	0	0	5,865	0	0	
134 MEDICAL COLL OF GEORGIA	5,864	0	0	0	0	5,864	0	0	
135 COL OF MED & DENT OF N J	5,659	0	0	0	0	5,659	0	0	
136 RENSSELAER POLY INST	5,636	3,671	1,344	195	262	222	181	0	2
137 U OF OREGON MED SCHOOL	5,508	0	0	0	0	5,407	101	0	
138 U OF CAL SANTA BARBARA	5,452	287	1,668	943	112	982	745	630	15
139 UNIV OKLAHOMA	5,387	482	482	380	236	3,087	29	688	22
140 TEXAS TECH UNIVERSITY	5,127	2,277	508	115	20	1,592	73	397	13
TOTAL 1ST 140 INSTS.	3,085,644	334,026	302,973	226,273	75,790	1,790,642	61,065	207,796	87,04
141 LEHIGH UNIVERSITY	5,054	2,103	694	642	215	253	18	56	48
142 UNIVERSITY OF NOTRE DAME	5,018	1,358	2,349	0	104	1,215	20	72	
143 UNIVERSITY OF HOUSTON	4,782	1,872	1,233	65	129	839	649	795	
144 UNIVERSITY OF LOUISVILLE	4,778	400	124	4	14	3,340	42	254	19
145 SOUTH DAKOTA STATE UNIV	4,771	302	37	1	0	3,783	0	307	34
146 U TEX HLTH SCI CT SAN ANT	4,593	0	0	0	0	4,593	0	0	
147 UNIV OF MISSOURI ROLLA	4,389	2,829	890	633	11	19	0	7	
148 UNIV OF NEW HAMPSHIRE	4,373	398	1,124	324	25	2,082	22	85	28
149 U OF WIS MILWAUKEE	4,369	887	690	388	101	149	412	724	41
150 S U N Y SYSTEM UNDIST	4,276I	459I	436I	372I	97I	2,380I	243I	301I	13
TOTAL 1ST 150 INSTS.	3,132,349	344,585	310,702	228,432	76,490	1,809,261	62,734	210,397	88,90

SEE FOOTNOTES AT END OF TABLE.

TABLE B-21.
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R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
151 MICHIGAN TECH UNIVERSITY	[illegible]	[illegible]	74	[illegible]	9	[illegible]	0	[illegible]	268
152 INDIANA UNIV NORTHWEST	[illegible]	0	1	0	0	[illegible]	0	[illegible]	16
153 RUSH MEDICAL COLLEGE	[illegible]	16	0	0	0	[illegible]	[illegible]	0	40
154 LA ST U MED CTR N ORLEANS	[illegible]	0	0	0	0	[illegible]	0	0	0
155 SUNY ALBANY	[illegible]	0	[illegible]	[illegible]	66	866	9	489	28
156 UNIV OF SOUTH FLORIDA	[illegible]	[illegible]	338	[illegible]	107	[illegible]	134	609	0
157 BOSTON COLLEGE	[illegible]	0	602	[illegible]	[illegible]	[illegible]	96	639	0
158 WAKE FOREST UNIVERSITY	[illegible]	0	67	0	[illegible]	[illegible]	18	71	22
159 UNIV OF NEVADA - RENO	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	277	43
160 U OF CAL SANTA CRUZ	[illegible]	0	[illegible]	[illegible]	[illegible]	17	[illegible]	375	0
TOTAL 1ST 160 INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
161 POLYTECHNIC INST OF N Y	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	0	0	0
162 UNIV OF MD SYSTEM OFC	[illegible]	0	0	[illegible]	0	[illegible]	0	[illegible]	0
163 U OF NEV DESERT RES INST	[illegible]	0	0	[illegible]	0	[illegible]	0	166	0
164 MED UNIV OF SO CAROLINA	[illegible]	0	0	0	0	[illegible]	0	0	0
165 ARIZONA STATE UNIVERSITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
166 UNIV OF ILL CHICAGO CIR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
167 UNIV OF NORTH DAKOTA	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	169	0
168 UNIV OF SOUTH ALABAMA	[illegible]	0	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0
169 STEVENS INSTITUTE OF TECH	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	15	0
170 CITY COLLEGE OF NEW YORK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0
TOTAL 1ST 170 INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
171 BRIGHAM YOUNG UNIVERSITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
172 UNIV OF SOUTH CAROLINA	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0
173 US NAVAL POSTGRAD SCHOOL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	11	0
174 HOWARD UNIVERSITY	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	187	0
175 SAN DIEGO STATE UNIV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
176 CATHOLIC UNIV OF AMERICA	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]
177 ALABAMA A & M UNIV	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
178 NORTHEASTERN UNIVERSITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
179 UNIVERSITY OF MONTANA	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
180 U OF CAL UNIV-WIDE PRGMS	[illegible]	[illegible]	0	[illegible]	0	[illegible]	0	0	0
TOTAL 1ST 180 INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
181 CUNY GRADUATE DIVISION	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
182 SUNY COL OF ENV SCI & FOR	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	0	0
183 DREXEL UNIVERSITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0
184 AMERICAN UNIVERSITY THE	[illegible]	0	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	0
185 N MEX INST MINING & TECH	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	0	0
186 U OF ARKANSAS MED CENTER	[illegible]	0	0	0	0	[illegible]	0	0	0
187 HAHNEMAN MEDICAL COLLEGE	[illegible]	0	0	0	0	[illegible]	0	0	0
188 SOUTHERN ILLINOIS UNIV	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
189 U PUERTO RICO MED SCI CMP	[illegible]	0	0	0	0	[illegible]	0	0	0
190 THE MED COLL OF PENNA	[illegible]	0	0	0	0	[illegible]	0	0	0
TOTAL 1ST 190 INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
191 LOYOLA UNIVERSITY	[illegible]	0	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]
192 WORCESTER POLY INSTITUTE	[illegible]	[illegible]	[illegible]	0	0	[illegible]	0	[illegible]	0
193 COLORADO SCHOOL OF MINES	[illegible]	[illegible]	0	0	0	0	0	0	0
194 NC AG & TECH STATE UNIV	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]
195 INSTITUTE PAPER CHEMISTRY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0
196 SOUTHERN METHODIST UNIV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
197 VIRGINIA STATE COLLEGE	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0
198 ILLINOIS INST OF TECH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0
199 LOMA LINDA UNIVERSITY	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	0	0
200 SUNY BINGHAMTON	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL 1ST 200 INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL ALL OTHER INSTS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-22.

R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1972

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	2,180,005	236,229	200,547	187,822	48,354	1,205,138	55,393	174,819	71,703
1 UNIV OF WISCONSIN-MADISON	95,436	3,001	10,345	9,901	2,320	44,892	4,177	12,756	5,984
2 U OF CAL SAN DIEGO	76,898	2,144	9,929	40,966	424	21,902	596	324	532
3 UNIVERSITY OF MICHIGAN	74,553	12,766	3,419	3,677	1,649	30,917	5,949	14,180	0
4 UNIVERSITY OF MINNESOTA	69,655	5,474	4,175	790	776	30,752	1,226	4,827	1,565
5 UNIVERSITY OF WASHINGTON	65,947	4,501	4,227	5,025	642	43,020	97	2,214	4,831
6 U OF CAL BERKELEY	65,087	11,449	11,777	1,804	1,347	28,732	1,671	7,281	8268
7 U OF CAL LOS ANGELES	57,831	5,687	5,222	3,884	948	28,097	3,115	3,252	626
8 UNIV ILLINOIS URBANA	51,203	11,669	6,410	3,861	3,553	12,535	1,954	5,085	6,136
9 U OF CAL SAN FRANCISCO	43,261	0	0	0	0	42,261	0	0	0
10 UNIV OF TEXAS AT AUSTIN	41,754	6,443	8,330	3,758	1,787	9,393	2,082	4,731	10,229
TOTAL 1ST 10 INSTS.	641,625	65,164	63,854	75,666	15,426	316,181	21,984	54,650	30,729
11 U OF CAL DAVIS	40,707	3,202	1,057	106	29	34,136	80	1,298	819
12 TEXAS A & M UNIVERSITY	39,349	9,084	4,221	4,925	183	19,589	0	661	686
13 OHIO STATE UNIVERSITY	38,727	7,717	2,478	852	774	21,842	206	3,909	949
14 MICHIGAN STATE UNIVERSITY	38,568	714	3,073	1,717	429	24,174	623	6,473	1,165
15 UNIVERSITY OF FLORIDA	36,249	4,203	684	893	957	27,963	217	872	0
16 PURDUE UNIV ALL CAMPUSES	33,109	9,501	3,270	372	714	17,819	689	2,522	222
17 UNIVERSITY OF GEORGIA	33,076	727	754	1,005	596	28,092	289	1,613	0
18 UNIVERSITY OF COLORADO	30,625	1,591	6,725	1,151	753	15,878	1,691	1,045	411
19 PENNSYLVANIA STATE UNIV	30,375	4,725	3,241	5,245	186	8,285	541	5,289	2,965
20 UNIV OF NC AT CHAPEL HILL	30,136	0	1,499	2,045	2,636	15,463	404	3,715	4,374
TOTAL 1ST 20 INSTS.	944,046	106,786	93,016	93,857	20,673	529,423	26,524	82,047	42,320
21 UNIVERSITY OF ARIZONA	29,761	1,600	7,962	3,703	186	10,792	860	2,603	2,055
22 IOWA ST U OF SCI & TECH	26,946	4,345	1,655	76	1,384	14,937	129	2,584	1,236
23 RUTGERS THE STATE UNIV	25,928	1,364	3,213	3,025	1,500	10,478	1,907	4,025	126
24 N C STATE UNIV AT RALEIGH	25,878	3,013	402	1,400	490	18,538	180	855	940
25 UNIVERSITY OF HAWAII	24,396	1,904	3,013	6,986	177	9,632	177	1,482	1,723
26 UNIV OF MISSOURI COLUMBIA	24,538	1,238	152	413	68	20,736	319	1,479	153
27 COLORADO STATE UNIVERSITY	24,288	5,602	955	1,739	265	12,625	230	2,641	232
28 OREGON STATE UNIVERSITY	24,181	1,641	891	3,162	247	14,453	0	976	711
29 UNIVERSITY OF UTAH	22,777	2,467	2,154	3,530	1,466	11,551	399	996	214
30 UNIV OF MD COLLEGE PARK	21,431	3,297	7,205	306	2,604	6,288	339	784	408
TOTAL 1ST 30 INSTS.	1,243,780	133,256	120,620	119,497	29,520	659,453	31,064	100,472	50,098
31 UNIVERSITY OF ALASKA	21,139	291	2,545	10,525	200	5,620	0	1,940	18
32 UNIVERSITY OF IOWA	20,128	565	3,237	54	160	14,815	278	1,019	0
33 UNIVERSITY OF CONNECTICUT	18,466	2,350	779	1,158	1,024	10,631	499	2,025	0
34 VIRGINIA POLYTECHNIC INST	18,089	3,416	669	1,247	397	9,418	60	1,257	1,625
35 UNIV OF NEBRASKA - LNCLN	18,084	1,310	860	1,499	21	13,213	227	954	0
36 UNIVERSITY OF PITTSBURGH	17,463	1,096	3,094	128	99	12,058	486	200	0
37 CUNY MT SINAI SCH OF MED	17,234	0	0	0	0	17,234	0	0	0
38 U OF TEX M D ANDERSON HOS	17,216	0	782	0	1,479	14,955	0	0	0
39 GEORGIA INSTITUTE OF TECH	17,109	10,334	3,075	719	980	318	59	1,084	540
40 U OF CAL RIVERSIDE	17,024	1,251	1,056	2,272	295	11,258	295	139	454
TOTAL 1ST 40 INSTS.	1,425,732	155,869	137,017	137,099	35,979	768,973	32,970	109,090	52,735
41 WASHINGTON STATE UNIV	16,534	3,595	778	516	94	10,394	153	804	0
42 TEMPLE UNIVERSITY	16,461	54	1,614	5	27	12,373	237	1,368	185
43 UNIV ALABAMA BIRMINGHAM	16,324	21	24	127	340	15,612	31	49	120
44 MISSISSIPPI STATE UNIV	15,824	1,040	102	7	34	13,853	0	768	0
45 UNIVERSITY OF CINCINNATI	15,473	1,637	393	79	50	12,429	74	262	549
46 UNIV OF KENTUCKY ALL CAM	15,269	2,471	667	6	34	9,392	54	1,048	1,595
47 OKLAHOMA STATE UNIVERSITY	15,167	3,305	741	39	16	7,739	7	1,763	1,557
48 UNIVERSITY OF KANSAS	15,142	1,572	719	2,103	131	5,685	4,078	465	389
49 KANSAS ST UNIVERSITY	14,361	1,110	408	1,226	158	10,373	67	520	699
50 SUNY BUFFALO	14,391	991	708	90	996	10,428	134	1,020	24
TOTAL 1ST 50 INSTS.	1,580,878	169,663	142,771	141,299	35,879	877,451	37,805	118,157	57,853

SEE FOOTNOTES AT END OF TABLE.

TABLE B-22.
CONTINUED

R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 FLORIDA STATE UNIVERSITY	14,320	0	2,919	2,068	1,028	2,229	537	5,339	0
52 UNIVERSITY OF VIRGINIA	14,292	3,207	1,843	983	282	7,292	243	431	11
53 LSU CTR AGR SCI/RUR DEV	13,111	402	53	0	90	11,823	0	743	0
54 AUBURN UNIVERSITY	12,049	1,464	0	1,014	0	9,063	0	508	0
55 UNIV OF MASS AT AMHERST	11,990	1,509	2,326	1,711	405	3,323	721	1,911	84
56 UNIVERSITY OF IDAHO	11,622	876	209	232	2	7,679	0	775	1,849
57 SUNY UPSTATE MEDICAL CTR	11,591	0	0	0	0	11,591	0	0	0
58 UTAH STATE UNIVERSITY	11,591	4,266	54	1,343	53	5,338	14	431	72
59 CLEMSON UNIVERSITY	11,364	2,234	402	453	57	8,426	36	56	0
60 U OF CAL IRVINE	11,329	496	2,600	0	69	7,401	0	763	0
TOTAL 1ST 60 INSTS.	1,704,137	184,117	152,477	149,075	38,462	931,666	39,356	129,114	59,869
61 UNIV OF VT & ST AGRIC COL	10,527	156	292	156	1	9,242	442	171	67
62 INDIANA UNIV-BLOOMINGTON	10,289	0	3,752	104	228	1,578	439	2,109	2,019
63 U PUERTO RICO MAYAGUEZ	10,049	39	0	418	0	9,592	0	0	0
64 SUNY STONY BROOK	10,000	1,871	2,098	847	530	3,506	537	369	242
65 NEW MEXICO STATE UNIV	9,966	4,556	548	581	2,806	640	160	675	0
66 UNIVERSITY OF ARKANSAS	9,926	724	301	344	0	7,470	1	1,086	0
67 UNIV OF MD BALTIMORE	9,892	0	0	0	0	9,837	0	55	0
68 U TEX GALVESTON MED BRAN	9,099	0	0	0	0	9,099	0	0	0
69 SUNY DOWNSTATE MED CTR	8,885	0	0	0	0	8,885	0	0	0
70 UNIVERSITY OF NEW MEXICO	8,844	2,393	327	438	36	5,041	214	351	24
TOTAL 1ST 70 INSTS.	1,801,614	195,856	159,795	152,041	42,068	1,016,556	41,149	133,930	62,221
71 WAYNE STATE UNIVERSITY	8,811	1,138	1,117	24	56	4,835	93	717	829
72 INDIANA UNIVERSITY-PURDUE	8,748	2	5	0	0	8,715	1	24	1
73 UNIV OF MAINE ORONO	8,489	918	100	1,209	7	4,314	163	1,246	274
74 U TEX HLTH SCI CTR DALLAS	8,436	0	0	0	0	8,436	0	0	0
75 UNIVERSITY OF WYOMING	7,728	160	1,570	1,718	25	3,815	200	237	3
76 UNIVERSITY OF OREGON	7,690	0	1,480	298	87	1,316	347	3,921	81
77 MONTANA STATE UNIVERSITY	7,622	1,090	565	116	44	5,525	0	314	0
78 U TENN MED UNITS MEMPHIS	7,444	0	0	0	0	7,444	0	0	0
79 WEST VIRGINIA UNIVERSITY	7,418	2,257	42	22	1	4,394	21	461	0
80 VIRGINIA COMMONWLTH UNIV	7,315	0	0	0	0	7,315	0	0	0
TOTAL 1ST 80 INSTS.	1,881,315	199,419	164,874	156,448	42,254	1,072,865	42,278	140,870	63,409
81 NORTH DAKOTA STATE UNIV	6,856	193	174	238	0	6,134	0	117	0
82 UNIVERSITY OF DELAWARE	6,783	2,037	915	1,552	39	1,740	91	404	0
83 U TENN INST OF AGRICULT	6,748	0	0	0	0	6,748	0	0	0
84 LA ST U BATON ROUGE	6,740	1,151	1,557	2,179	368	462	222	405	0
85 UNIV OF RHODE ISLAND	6,738	766	0	4,544	0	587	0	749	37
86 U TEX MED SCH HOUSTON	6,249	0	0	0	0	6,249	0	0	0
87 U OF ILL MEDICAL CENTER	6,216	0	27	0	0	6,189	0	0	1
88 UNIV OF MISSISSIPPI	6,124	299	199	87	40	4,417	64	984	34
89 U TENNESSEE KNOXVILL	6,042	1,115	978	166	50	879	105	541	128
90 U OF NEB MED C AT OMAHA	5,665	0	0	0	0	5,665	0	0	0
TOTAL 1ST 90 INSTS.	1,945,476	206,980	169,124	164,254	42,751	1,111,941	42,758	144,070	63,608
91 MEDICAL COLL OF GEORGIA	5,664	0	0	0	0	5,664	0	0	0
92 COL OF MED & DENT OF N J	5,659	0	0	0	0	5,659	0	0	0
93 U OF OREGON MED SCHOOL	5,508	0	0	0	0	5,407	101	0	0
94 U OF CAL SANTA BARBARA	5,456	284	1,668	643	112	932	715	636	158
95 UNIV OKLAHOMA	5,387	432	415	380	238	3,787	29	608	118
96 TEXAS TECH UNIVERSITY	5,127	2,277	508	111	28	1,592	73	297	139
97 UNIVERSITY OF HOUSTON	4,782	1,672	1,213	65	129	839	649	795	0
98 UNIVERSITY OF LOUISVILLE	4,778	400	134	4	14	3,246	405	254	191
99 SOUTH DAKOTA STATE UNIV	4,771	303	37	1	0	3,783	0	307	340
100 U TEX HLTH SCI CT SAN ANT	4,593	0	0	0	0	4,593	0	0	0
TOTAL 1ST 100 INSTS.	1,997,197	211,751	173,119	165,472	43,572	1,146,643	44,740	147,144	64,554
TOTAL ALL OTHER INSTS.	182,808	24,476	27,428	23,230	4,782	56,295	10,653	27,675	7,149

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-23.

R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	1,213,131	144,293	149,793	67,211	36,577	689,870	24,487	75,110	25,790
1 MASS INST OF TECHNOLOGY	84,668	31,002	22,572	5,24[illegible]	7,448	13,422	1,13[illegible]	3,219	623
2 COLUMBIA UNIV MAIN DIV	68,197	5,407	5,551	10,42[illegible]	480	38,243	450	4,612	5,026
3 STANFORD UNIVERSITY	66,876	12,044	10,641	2,677	3,202	29,674	900	5,301	2,437
4 HARVARD UNIVERSITY	64,176	904	9,127	3,505	739	39,652	2,163	7,490	1,596
5 CORNELL UNIVERSITY	61,545	6,303	9,892	486	854	29,712	159	3,983	156
6 UNIVERSITY OF CHICAGO	58,766	0	9,228	1,853	957	42,075	817	3,836	0
7 JOHNS HOPKINS UNIVERSITY	56,471	781	2,407	4,624	104	45,038	474	2,282	761
8 YALE UNIVERSITY	41,032	1,503	4,829	783	452	30,166	943	2,356	0
9 UNIV OF PENNSYLVANIA	41,006	2,119	4,465	32	1,195	30,907	325	1,963	0
10 NEW YORK UNIVERSITY	40,976	983	1,923	297	3,615	30,044	57[illegible]	3,280	263
TOTAL 1ST 10 INSTS.	583,713	61,046	78,635	29,951	19,046	338,933	6,938	38,522	10,862
11 UNIVERSITY OF ROCHESTER	38,848	3,242	4,921	97	361	27,520	915	701	1,151
12 WASHINGTON UNIV ST LOUIS	30,165	4,082	1,358	24	116	22,458	221	401	1,505
13 UNIV OF STHRN CALIFORNIA	29,183	6,899	1,166	1,860	111	16,118	372	2,657	0
14 YESHIVA UNIVERSITY	28,502	0	1,102	0	252	26,247	751	50	0
15 UNIVERSITY OF MIAMI	28,101	1,425	663	5,963	21	18,717	330	780	202
16 ROCKEFELLER UNIVERSITY	27,446	0	1,430	0	571	22,662	2,783	0	0
17 DUKE UNIVERSITY	26,791	600	1,740	775	142	21,850	368	1,318	0
18 CALIFORNIA INST OF TECH	22,398	5,302	9,108	3,365	241	3,848	0	463	67
19 CASE WESTERN RESERVE UNIV	21,697	5,935	2,458	356	99	11,806	250	813	0
20 NORTHWESTERN UNIVERSITY	21,097	2,240	2,172	168	384	12,006	533	1,137	2,457
TOTAL 1ST 20 INSTS.	857,941	90,771	104,753	42,541	21,284	522,165	13,441	46,642	16,244
21 PRINCETON UNIVERSITY	19,737	5,238	6,471	1,662	1,266	2,276	900	1,904	0
22 BAYLOR COLLEGE OF MED	19,643	0	0	0	0	19,643	0	0	0
23 WOODS HOLE OCNGRPHIC INST	17,196	2,916	0	14,280	0	0	0	0	0
24 BOSTON UNIVERSITY	15,944	142	740	0	69	13,052	167	143	1,629
25 CARNEGIE-MELLON UNIV	15,443	5,096	5,605	0	2,146	642	538	1,416	0
26 VANDERBILT UNIVERSITY	15,171	566	829	1	34	13,065	295	383	0
27 GEORGE WASHINGTON UNIV	14,557	2,249	67	24	3,410	5,817	350	1,903	737
28 TULANE UNIVERSITY	12,028	622	148	7	177	10,543	199	167	165
29 EMORY UNIVERSITY	11,046	0	409	2	11	10,386	76	143	19
30 GEORGETOWN UNIVERSITY	10,944	0	517	0	0	7,250	12	251	2,914
TOTAL 1ST 30 INSTS.	1,009,650	107,601	119,539	58,537	28,497	604,840	15,976	52,952	21,708
31 ST LOUIS UNIV	9,269	410	134	318	1	7,808	101	500	0
32 BROWN UNIVERSITY	8,975	1,740	1,681	774	1,283	2,256	469	845	0
33 UNIVERSITY OF DENVER	7,880	2,697	1,182	290	159	213	416	3,038	35
34 TUFTS UNIVERSITY	7,128	261	366	0	4	5,889	166	414	28
35 BRANDEIS UNIVERSITY	7,033	0	1,303	0	213	3,001	23	1,973	520
36 UNIVERSITY OF DAYTON	7,024	3,656	1,428	0	1,021	577	0	12	330
37 ALBANY MED COL OF UNION U	6,939	0	0	0	0	6,939	0	0	0
38 THOM JEFFERSON UNIV HOSP	6,915	0	0	0	0	6,915	0	0	0
39 SYRACUSE UNIVERSITY	6,659	2,364	941	10	459	726	88	1,934	117
40 RICE UNIVERSITY	6,591	1,269	3,003	519	383	1,123	2	215	81
TOTAL 1ST 40 INSTS.	1,084,063	119,998	129,479	60,548	32,020	640,287	17,241	61,903	22,819
41 NEW YORK MEDICAL COLLEGE	6,056	0	0	0	0	6,056	0	0	0
42 THE MED COLL OF WISCONSIN	5,924	0	0	0	0	5,924	0	0	0
43 DARTMOUTH COLLEGE	5,690	513	440	331	79	3,891	150	105	181
44 RENSSELAER POLY INST	5,638	2,571[illegible]	1,344[illegible]	195[illegible]	20[illegible]	222[illegible]	18[illegible]	0	20[illegible]
45 LEHIGH UNIVERSITY	5,054	3,103	654	242	219	233	18	36	489
46 UNIVERSITY OF NOTRE DAME	5,018	1,058	2,549	0	104	1,215	20	72	0
47 RUSH MEDICAL COLLEGE	4,097	20	0	0	0	3,959	42	0	40
48 BOSTON COLLEGE	3,672	0	802	403	1,434	296	96	839	0
49 WAKE FOREST UNIVERSITY	3,765	0	67	0	3	3,584	18	71	22
50 POLYTECHNIC INST OF N Y	3,501	2,841	460	124	49	27	0	0	0
TOTAL 1ST 50 INSTS.	1,132,878	131,098	135,820	61,643	34,170	655,714	17,603	63,046	23,577

SEE FOOTNOTES AT END OF TABLE.

TABLE B-23.
CONTINUED

R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1979

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 STEVENS INSTITUTE OF TECH	2,198	2,221	651	0	0	0	271	15	
52 BRIGHAM YOUNG UNIVERSITY	2,132	348E	829E	53E	68E	696E	20E	1,036E	1
53 HOWARD UNIVERSITY	2,089	118	142	0	4	1,618	0	187	
54 CATHOLIC UNIV OF AMERICA	1,930	922	798	298	0	31C	108	692	1
55 NORTHEASTERN UNIVERSITY	1,735	915	891	24	87	163	235	416	
56 DREXEL UNIVERSITY	1,492	1,070	458	200	137	177	101	0	
57 AMERICAN UNIVERSITY THE	1,488	0	293	0	30	207	224	1,334	
58 MAYO MED SCHOOL OF MEDICINE	1,166	0	0	0	0	1,166	0	0	
59 THE MED COLL OF PENNA	1,105	0	0	0	0	1,105	0	0	
60 LOYOLA UNIVERSITY	1,029	0	35	0	0	1,058	35	281	1
TOTAL 1ST 60 INSTS.	1,150,847	137,350	139,725	62,217	34,490	679,337	28,857	67,327	23,63
61 WORCESTER POLY INSTITUTE	1,904	1,819	103	0	0	31	0	11	
62 INSTITUTE PAPER CHEMISTRY	1,822	712	502	259	37	312	0	0	
63 SOUTHERN METHODIST UNIV	1,780	416	37	459	214	99	6	555	1
64 ILLINOIS INST OF TECH	1,764	854E	613	45	30	216	7	0	
65 LOMA LINDA UNIVERSITY	1,751	0	0	0	350	1,219	186	0	
66 UNIVERSITY OF THE PACIFIC	1,702	0	41	67	0	1,540	50	4	
67 TEXAS CHRISTIAN UNIV	1,642	0	220	34	15	9	1,298	65	
68 GEO PEABODY COL TEACHERS	1,494	0	0	0	0	0	1,494	0	
69 NOVA UNIVERSITY	1,253	0	0	697	0	90	0	527	3
70 NEW ENGLAND INSTITUTE	1,239	91	721	574I	11	191	31	731	5
TOTAL 1ST 70 INSTS.	1,173,459	140,857	141,513	64,352	35,145	679,010	21,701	68,562	24,32
71 MCHARRY MEDICAL COLLEGE	1,252	0	139	0	0	765	348	0	
72 ANTIOCH COLLEGE	1,250I	82I	219I	94I	19I	521I	76I	418I	4
73 TRINITY UNIVERSITY	1,169	1	33	61	2	132	2	903	3
74 CLARKSON COL OF TECH	1,166	439	642	0	87	0	0	19	
75 WENTWORTH INST/COLLEGE	1,118	35	29	980	0	0	0	0	9
76 TUSKEGEE INSTITUTE	1,092	70	135	0	0	736	0	70	7
77 FORDHAM UNIVERSITY	1,087	0	232	71	29	63	111	585	
78 CREIGHTON UNIVERSITY	1,085	0	0	0	0	1,085	0	0	
79 WESLEYAN UNIVERSITY	1,082	0	258	28	32	493	60	75	4
80 GALLAUDET COLLEGE	874	0	184	0	0	169	261	260	
TOTAL 1ST 80 INSTS.	1,180,596	141,484	143,584	65,595	35,282	682,775	22,556	70,698	24,64
81 MARQUETTE UNIVERSITY	869	174	59	0	1	184	3	448	
82 ROCHESTER INST TECHNOLOGY	788	69	719	0	0	0	0	10	
83 UNIVERSITY OF SANTA CLARA	763	272	80	171	18	9	0	05	14
84 UNIVERSITY OF TULSA	759	589	20	26	20	20	0	84	
85 NEW SCH FOR SOC RESEARCH	682I	0I	69I	27I	12I	409I	13I	54I	2
86 CLAREMONT GRAD SCHOOL	671	0	0	0	9	8	166	488	
87 U HLTH SCI/CHCGO MED SCH	665	0	0	0	0	665	0	0	
88 UNIV OF SAN FRANCISCO	646	48	43E	0E	29E	324E	99E	139E	1
89 FLORIDA INST OF TECH	639	468	15	139	0	17C	0	30	3
90 NEW YORK INST TECH	619	15	387	0	217	0	0	0	
TOTAL 1ST 90 INSTS.	1,193,697	142,738	144,771	65,974	35,584	684,670	22,839	72,206	24,85
91 COLUMBIA UNIV TCHRS COL	619	0	0	0	0	0	442C	172	
92 CLARK UNIVERSITY	610	0	117	177	4	45	153	114	
93 AMHERST COLLEGE	593	0	284	12	2	282	13	0	
94 ADELPHI UNIV	585	0	156	90	6	193	0	140	
95 INST TEXTILE TECHNOLOGY	550	360	50	60	80	0	0	0	
96 OHIO DOMINICAN COLLEGE	500	0	300E	0	0	0	0	0	
97 XAVIER UNIVERSITY	475	0	7	0	31	32	30	375	
98 WRIGHT INSTITUTE	458I	36I	52I	14I	13I	266I	6I	31I	1
99 FAIRLEIGH DICKINSON UNIV	454	0	56	160	0	206	0	14	1
100 EMMANUEL COLLEGE	446	0	446	0	0	0	0	0	
TOTAL 1ST 100 INSTS.	1,198,982	143,218	146,439	66,492	35,720	685,694	23,485	73,052	24,88
TOTAL ALL OTHER INSTS.	14,149	1,077	3,354	719	857	4,176	1,002	2,058	90

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-24.

TOTAL AND FEDERALLY FINANCED
ENGINEERING R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL ENGINEERING EXPENDITURES				FEDERALLY FINANCED ENGINEERING EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	380,522	346,217	383,557	311,119	259,524	239,521	287,094	227,762
1 MASS INST OF TECHNOLOGY	31,002	26,032	73,535	43,317	24,190	20,724	68,674	39,070
2 UNIVERSITY OF MICHIGAN	12,706	13,602	17,444	18,665	7,765	8,476	12,338	14,098
3 STANFORD UNIVERSITY	12,044	9,502	9,233	8,639	10,840	9,017	9,047	8,424
4 UNIV ILLINOIS URBANA	11,669	13,067	10,933	9,772	8,492	10,416	8,377	6,875
5 U OF CAL BERKELEY	11,449	10,546	10,645	8,857	8,365	7,838	8,320	6,927
6 GEORGIA INSTITUTE OF TECH	10,334	8,574	7,625	6,014	5,547	4,186	3,800	3,550
7 PURDUE UNIV ALL CAMPUSES	9,501	8,002	6,775	5,549	6,375	5,592	4,877	3,843
8 TEXAS A & M UNIVERSITY	9,084	10,852	8,775	6,728	3,622	5,006	4,352	2,140
9 OHIO STATE UNIVERSITY	7,717	6,812	5,922	5,569	4,526	3,899	3,839	3,521
10 UNIV OF STHRN CALIFORNIA	6,899	6,213	6,423	3,328	6,479	5,981	6,254	3,224
TOTAL 1ST 10 INSTS.	122,465	113,302	157,310	116,235	86,201	81,133	129,778	91,642
11 UNIV OF TEXAS AT AUSTIN	6,443	6,142	4,842	3,903	5,496	5,005	2,539	2,045
12 CORNELL UNIVERSITY	6,303	5,504	6,485	5,010	5,739	4,909	5,299	4,540
13 CASE WESTERN RESERVE UNIV	5,935	4,841	4,796	4,921	4,932	4,172	4,110	3,915
14 U OF CAL LOS ANGELES	5,687	5,321	5,080	4,653	5,040	4,748	4,509	3,938
15 COLORADO STATE UNIVERSITY	5,601	4,719	4,503	4,455	4,491	3,843	3,853	3,881
16 UNIVERSITY OF MINNESOTA	5,444	5,169	4,774	4,151	3,194	3,159	2,960	2,431
17 COLUMBIA UNIV MAIN DIV	5,407	3,681	3,017	3,024	1,987	1,754	1,690	1,510
18 CALIFORNIA INST OF TECH	5,302	4,625	4,494	3,699	4,255	3,840	3,532	3,102
19 PRINCETON UNIVERSITY	5,238	4,795	4,867	4,350	4,208	3,610	3,642	3,324
20 CARNEGIE-MELLON UNIV	5,096	4,401	3,857	1,310	3,209	2,649	2,276	887
TOTAL 1ST 20 INSTS.	178,921	162,500	204,025	155,717	126,319	116,822	163,988	121,215
21 UNIV OF WISCONSIN-MADISON	5,061	5,870	5,941	5,199	1,897	1,477	1,554	1,120
22 PENNSYLVANIA STATE UNIV	4,723	4,424	4,529	4,010	2,517	2,228	2,463	2,252
23 NEW MEXICO STATE UNIV	4,556	4,002	3,896	2,668	4,081	3,867	3,770	2,623
24 UNIVERSITY OF WASHINGTON	4,501	4,485	4,216	3,604	3,816	3,919	3,770	3,163
25 UNIVERSITY OF FLORIDA	4,363	4,301	4,048	4,499	2,272	2,004	2,367	2,191
26 IOWA ST U OF SCI & TECH	4,345	3,932	3,609	2,809	1,338	1,098	964	916
27 UTAH STATE UNIVERSITY	4,266	4,272	3,489	1,030	3,533	3,471	3,052	716
28 WASHINGTON UNIV ST LOUIS	4,082	4,192	3,489	3,131	3,844	3,911	3,112	2,612
29 UNIVERSITY OF DAYTON	3,656	3,083	3,999	3,712	3,507	2,960	3,853	3,526
30 WASHINGTON STATE UNIV	3,595	3,061	2,957	2,630	745	835	805	683
TOTAL 1ST 30 INSTS.	222,069	202,228	242,196	187,209	154,369	142,592	189,698	141,017
31 RENSSELAER POLY INST	3,571E	3,186E	3,409E	2,980	2,900	2,794E	2,990E	2,608
32 VIRGINIA POLYTECHNIC INST	3,416	2,453	2,169	1,514	1,959	1,393	1,132	1,162
33 OKLAHOMA STATE UNIVERSITY	3,305	3,210	2,132	2,554	2,086	1,831	1,518	1,401
34 UNIV OF MD COLLEGE PARK	3,297	3,067	3,152	2,618	2,186	2,038	2,075	1,820
35 UNIVERSITY OF ROCHESTER	3,242	3,075	2,952	1,436	1,154	916	1,215	851
36 UNIVERSITY OF VIRGINIA	3,207	3,321	3,006	2,193	2,409	2,495	2,443	1,801
37 U OF CAL DAVIS	3,202	3,060	2,662	1,543	1,046	1,191	924	617
38 U TENNESSEE KNOXVILLE	3,115	2,574	2,014	1,783	2,659	2,112	1,668	1,325
39 LEHIGH UNIVERSITY	3,103	2,697	2,667	2,795	1,957	1,804	1,725	1,603
40 N C STATE UNIV AT RALEIGH	3,013	2,891	3,453	2,062	1,844	1,335	1,606	1,138
TOTAL 1ST 40 INSTS.	254,540	231,962	269,832	208,699	174,569	160,501	207,190	155,343
41 WOODS HOLE OCNGRAPHIC INST	2,918	2,492	2,901	2,262	2,732	2,443	2,867	2,232
42 POLYTECHNIC INST OF N Y	2,841	3,275	2,648	2,268	2,708	3,004	2,468	2,047
43 UNIV OF MISSOURI ROLLA	2,829	2,649	2,377	1,764	1,603	1,699	1,506	710
44 UNIVERSITY OF DENVER	2,697	2,957	2,570	3,039	2,260	2,204	2,270	2,653
45 UNIV OF KENTUCKY ALL CAM	2,471	1,137E	1,128	1,007	1,436	883E	962	840
46 UNIVERSITY OF UTAH	2,467	4,643	2,331	2,437	2,089	3,569	1,459	814
47 UNIVERSITY OF NEW MEXICO	2,393	1,994	2,419E	1,967	2,155	1,837	2,118	1,947
48 SYRACUSE UNIVERSITY	2,364	1,827	3,931E	1,950	2,261	1,686	3,246	1,700E
49 UNIVERSITY OF CONNECTICUT	2,350	1,974	1,748	1,574	803	720	599	493E
50 MICHIGAN TECH UNIVERSITY	2,320	2,057	2,002	1,707	795	721	394	342
TOTAL 1ST 50 INSTS.	280,188	256,967	293,887	228,673	193,431	179,268	225,077	169,121

SEE FOOTNOTES AT END OF TABLE.

TABLE B-24.
CONTINUED

TOTAL AND F.L.RALLY FINANCED
ENGINEERING R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL ENGINEERING EXPENDITURES				FEDERALLY FINANCED ENGINEERING EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 TEXAS TECH UNIVERSITY	2,277	1,963	1,456	1,383	912	921	905	336
52 WEST VIRGINIA UNIVERSITY	2,257	2,076	2,030	1,536E	1,034	1,305	1,232	1,233E
53 GEORGE WASHINGTON UNIV	2,249	1,996	1,831	1,828	2,224	1,913	1,805	1,805
54 NORTHWESTERN UNIVERSITY	2,240	2,247	1,766	2,260	2,053	1,744	1,542	1,524
55 CLEMSON UNIVERSITY	2,234	949	556	713	629	486	271	309
56 STEVENS INSTITUTE OF TECH	2,221	2,562	2,326	1,810	1,510	1,491	1,385	1,369
57 U OF CAL SAN DIEGO	2,144	722	749	1,562	2,116	684	721	1,526
58 UNIV OF PENNSYLVANIA	2,119	1,761	2,389	6,001	1,586	1,437	2,026	5,642
59 UNIVERSITY OF DELAWARE	2,037	1,798	1,438	841	1,162	1,095	724	602
60 COLORADO SCHOOL OF MINES	1,922	556	276	260	1,655	466	273	245
TOTAL 1ST 60 INSTS.	301,888	273,097	308,706	240,867	209,007	190,396	235,565	183,712
61 UNIVERSITY OF HAWAII	1,904	1,986	2,161	2,268	1,241	1,550	1,690	858
62 SUNY STONY BROOK	1,871	996	1,012	1,474	1,429	854	950	1,402
63 WORCESTER POLY INSTITUTE	1,819	1,549	1,581	1,670	308	512	373	500
64 BROWN UNIVERSITY	1,740	1,813	2,014	2,805	1,554	1,787	1,947	2,031
65 OREGON STATE UNIVERSITY	1,641	1,248	1,052	712	904	708	561	404
66 UNIVERSITY OF CINCINNATI	1,637	1,528	1,505	1,297	1,122	1,091	1,155	751
67 UNIVERSITY OF ARIZONA	1,600	1,853	1,680	1,485	796	982	864	621
68 UNIVERSITY OF COLORADO	1,591	2,628	1,261	628	1,229	1,982	1,062	527
69 UNIVERSITY OF KANSAS	1,572	2,152	1,814	1,400I	1,295	1,658	1,428	1,085E
70 UNIV OF MASS AT AMHERST	1,509	1,924	1,393	566E	1,020	1,036	1,107	494E
TOTAL 1ST 70 INSTS.	318,772	290,554	324,199	260,192	220,215	202,355	246,698	192,385
71 YALE UNIVERSITY	1,503	1,606	1,438	1,378	1,339	1,502	1,383	1,284
72 AUBURN UNIVERSITY	1,464	1,226	1,353	1,355	1,074	764	888	881
73 UNIV OF NORTH DAKOTA	1,442	729	267	85	1,241	656	212	16
74 UNIVERSITY OF MIAMI	1,425	1,048	1,445	1,223	1,075	720	983	863
75 DREXEL UNIVERSITY	1,370	1,320	377I	600E	861	861	331I	590E
76 RUTGERS THE STATE UNIV	1,364	1,557	1,575	1,245	596	620	702	584
77 UNIV OF NEBRASKA - LNCLN	1,310	1,089	1,117	1,017	255	209	400	267
78 RICE UNIVERSITY	1,265	1,189	1,598	2,256	1,010	1,010	1,421	2,051
79 U OF CAL RIVERSIDE	1,251	1,270	1,514	968	786	907	1,132	728
80 UNIV OF MISSOURI COLUMBIA	1,238	1,359	1,400	1,211	512	556	579	464
TOTAL 1ST 80 INSTS.	332,404	302,957	336,083	271,532	228,970	210,160	254,729	200,113
81 UNIV OF ILL CHICAGO CIR	1,235	836	612	451	1,064	761	453	382
82 LA ST U BATON ROUGE	1,151	930	546E	1,274	706	459	310E	507
83 WAYNE STATE UNIVERSITY	1,138	1,090	961	768	644	605	436	391
84 KANSAS ST UNIVERSITY	1,110	1,097	1,044	1,123	403	450	470	634
85 UNIVERSITY OF PITTSBURGH	1,096	767	613	547	874	571	460	354
86 MONTANA STATE UNIVERSITY	1,090	722	1,209	757	445	458	450	279
87 UNIVERSITY OF HOUSTON	1,072	717	622	735	863	603	566	656
88 CITY COLLEGE OF NEW YORK	1,067	231I	214I	168I	852	172I	264I	132I
89 UNIVERSITY OF NOTRE DAME	1,058	968	880	760	850	851	764	649
90 N MEX INST MINING & TECH	1,053	1,047	943	583	946	853	666E	317
TOTAL 1ST 90 INSTS.	343,474	311,382	343,727	278,671	236,320	215,903	259,468	204,414
91 MISSISSIPPI STATE UNIV	1,040	859	927	953	458	412	489	524
92 US NAVAL POSTGRAD SCHOOL	1,037	1,390	1,146	696	1,037	1,390	1,146	696
93 SUNY BUFFALO	991	862	998	535	868	790	800	485
94 NEW YORK UNIVERSITY	985	1,023	2,384	2,039	948	915	2,188	1,656
95 CATHOLIC UNIV OF AMERICA	932	1,068	1,404	1,349	835	907	1,251	1,130
96 UNIV OF MAINE ORONO	916	348E	333	347	240	295E	287	236
97 NORTHEASTERN UNIVERSITY	915	986	1,032	592	829	897	954	580
98 HARVARD UNIVERSITY	904	1,013	665	838	690	818	630	676
99 U OF WIS MILWAUKEE	887	840	805	516	391	520	291	162
100 OLD DOMINION UNIVERSITY	884	809	660	384	684	787	570	384
TOTAL 1ST 100 INSTS.	352,963	320,580	354,081	288,969	243,476	223,432	268,074	210,963
TOTAL ALL OTHER INSTS.	27,559	25,637	29,476	24,150	16,048	16,089	19,020	16,799

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-25.

TOTAL AND FEDERALLY-FINANCED
ENVIRONMENTAL R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL ENVIRONMENTAL SCIENCES EXPENDITURES				FEDERALLY FINANCED ENVIRONMENTAL SCIENCES EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	255,033	234,989	209,648	187,383	180,566	168,298	157,627	138,639
1 U OF CAL SAN DIEGO	40,966E	37,[illegible]59	27,975	19,583	35,762	33,420	27,174	19,437E
2 WOODS HOLE OCNGRPHIC INST	14,280	11,976	11,441	10,440	12,214	10,549	10,503	9,762
3 UNIVERSITY OF ALASKA	10,525	9,645	8,190	6,164E	6,758	5,508	7,770	4,937E
4 COLUMBIA UNIV MAIN DIV	10,428	8,980	8,787	8,080	10,235	8,745	8,618	7,783
5 UNIV OF WISCONSIN-MADISON	9,901	10,405	11,468	8,998	4,625	5,186	5,610	4,284
6 UNIVERSITY OF HAWAII	8,486	5,518	6,365	4,919	4,627	3,706	4,032	3,635
7 UNIVERSITY OF MIAMI	5,963	4,734	4,316	4,067	4,445	3,219	2,945	3,127
8 UNIVERSITY OF MICHIGAN	5,677	3,165	3,261	2,506	4,012	1,768	1,764	1,583
9 MASS INST OF TECHNOLOGY	5,246	4,691	4,827	3,867	4,944	4,431	4,326	3,460
10 OREGON STATE UNIVERSITY	5,162	5,377	5,443	4,943	4,540	4,826	5,008	4,368
TOTAL 1ST 10 INSTS.	114,634	102,050	92,073	74,169	92,148	81,348	77,750	62,176
11 PENNSYLVANIA STATE UNIV	5,145	4,322	4,144	3,894	2,914	2,409	2,205	2,243
12 UNIVERSITY OF WASHINGTON	5,025	8,356	8,064	6,505	4,301	7,941	7,705	6,081
13 TEXAS A & M UNIVERSITY	4,925	4,222	4,267	4,430	3,996	2,982	2,983	3,052
14 JOHNS HOPKINS UNIVERSITY	4,624	5,271	3,156	2,321	3,812	4,323	1,286	1,272
15 UNIV OF RHODE ISLAND	4,595	3,684	3,509E	3,342E	3,891	3,330	3,171E	3,020E
16 U OF CAL LOS ANGELES	3,684	4,487	4,139	3,888	3,251	3,953	3,684	3,559
17 UNIV ILLINOIS URBANA	3,861	3,339	2,759	2,109	2,606	2,389	2,114	1,610
18 UNIV OF TEXAS AT AUSTIN	3,758	1,969	1,127	708	1,124	253	169	114
19 UNIVERSITY OF ARIZONA	3,703	3,600	3,621	2,671	1,195	1,277	1,210	954
20 UNIVERSITY OF UTAH	3,530	1,121	1,163	812	2,965	842	625	714
TOTAL 1ST 20 INSTS.	157,688	142,421	128,002	104,849	121,[illegible]3	111,047	102,907	84,895
21 HARVARD UNIVERSITY	3,505	3,959	4,391	4,530	3,209	3,839	4,280	3,988
22 CALIFORNIA INST OF TECH	3,369	3,156	3,120	3,155	2,818	2,593	2,812	2,661
23 U OF NEV DESERT RES INST	3,049	2,881	2,893	2,000E	1,306	1,458	2,045	1,000E
24 RUTGERS THE STATE UNIV	3,025	2,843	1,782	3,280	818	405	283	627
25 STANFORD UNIVERSITY	2,677	2,414	2,609	2,722	2,406	2,207	2,589	2,560
26 U OF CAL RIVERSIDE	2,272E	2,025	1,760	1,544	1,122	1,077	880	875
27 LA ST U BATON ROUGE	2,175	1,995	1,134E	1,279	1,183	1,062	706E	1,153
28 UNIVERSITY OF KANSAS	2,108	2,318	2,284	2,735	110	99	51	83
29 FLORIDA STATE UNIVERSITY	2,068	1,420	1,358	1,151	1,420	1,255	1,255	1,008
30 UNIV OF NC AT CHAPEL HILL	2,045	1,663	72	67	1,297	1,316	25	50
TOTAL 1ST 30 INSTS.	183,976	167,105	148,425	126,358	136,891	126,298	117,744	98,900
31 UNIV OF STHRN CALIFORNIA	1,860	1,584	1,524	1,080	1,366	1,190	1,348	952
32 UNIVERSITY OF CHICAGO	1,853	1,605	1,667	1,7[illegible]0	1,[illegible]42	1,564	1,620	1,640
33 U OF CAL BERKELEY	1,804	675	692	50[illegible]	1,186	685	525	399E
34 COLORADO STATE UNIVERSITY	1,739	1,362	2,020	1,921	1,627	1,276	2,504	2,881
35 UNIVERSITY OF WYOMING	1,718	1,603	1,402	539	1,292	1,168	1,380	512
36 MICHIGAN STATE UNIVERSITY	1,717	897	594	330	649	351	282	168
37 UNIV OF MASS AT AMHERST	1,711	1,549	1,[illegible]72	1,540	677	716	974	729
38 PRINCETON UNIVERSITY	1,682	1,264	1,[illegible]84	775	1,294	858	849	528
39 UNIVERSITY OF DELAWARE	1,551	1,328	1,[illegible]92	1,169	[illegible]46	643	1,102	900
40 UNIV OF NEBRASKA - LNCLN	1,499	1,425	1,317	612	841	829	267	297
TOTAL 1ST 40 INSTS.	201,110	180,997	162,469	137,599	148,559	[illegible]6,760	128,672	107,906
41 SUNY ALBANY	1,561	1,298	1,383	1,0[illegible]	577	781	849	537
42 UTAH STATE UNIVERSITY	1,[illegible]13	1,461	1,[illegible]19	5,270	1,059	1,[illegible]11	1,[illegible]27	2,651
43 UNIV OF MAINE ORONO	1,369	1,[illegible]63E	1,[illegible]27	1,501	741	1,[illegible]15	1,291	834
44 VIRGINIA POLYTECHNIC INST	1,247	549	517	1,[illegible]22	227	197	260	122
45 KANSAS ST UNIVERSITY	1,[illegible]26	1,[illegible]22	1,092	804	288	230	254	252
46 UNIV OF MO SYSTEM OFC	1,219	625	521	482	257	66	38	183
47 N C STATE UNIV AT RALEIGH	1,200	1,100	780	673	600	600	393	241
48 UNIVERSITY OF CONNECTICUT	1,158	1,022	930	920	342	218	258	204
49 UNIVERSITY OF COLORADO	1,131	1,804	281	60	894	1,404	216	51
50 N MEX INST MINING & TECH	1,052	1,241	1,282	1,054	504	562	627	601
TOTAL 1ST 50 INSTS.	213,287	193,082	172,431	148,705	153,996	142,080	134,107	113,632

SEE FOOTNOTES AT END OF TABLE.

TABLE B-25.
CONTINUED

TOTAL AND FEDERALLY-FINANCED ENVIRONMENTAL R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL ENVIRONMENTAL SCIENCES EXPENDITURES				FEDERALLY FINANCED ENVIRONMENTAL SCIENCES EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 AUBURN UNIVERSITY	1,014	1,098	1,118	746	527	927	940	552
52 UNIVERSITY OF GEORGIA	1,005	917	0	0	746	942	0	0
53 WENTWORTH INST/COLLEGE	988	1,073	1,045	963	951	1,073	1,045	963
54 U OF WIS MILWAUKEE	986	946	987	946	260	307	394	449
55 UNIVERSITY OF VIRGINIA	983	662	497	308	810	668	410	242
56 UNIV OF SOUTH FLORIDA	980	483	6	0	376	111	6	0
57 UNIVERSITY OF FLORIDA	893	751	664	584	130	90	110	94
58 CITY COLLEGE OF NEW YORK	855	1751	1511	1121	405	1361	1211	84
59 OHIO STATE UNIVERSITY	852	810	1,557	654	548	507	857	608
60 SUNY STONY BROOK	847	1,029	1,128	1,020	714	907	951	878
TOTAL 1ST 60 INSTS.	222,092	201,228	179,584	154,036	139,467	147,049	136,541	117,282
61 UNIVERSITY OF MINNESOTA	790	748	932	969	552	512	454	301
62 YALE UNIVERSITY	783	859	960	1,202	737	725	848	973
63 DUKE UNIVERSITY	773	691	0	297	530	594	0	268
64 BROWN UNIVERSITY	771	808	546	675	666	805	546	515
65 SUNY COLLEGE BUFFALO	721	665	430	172	597	427	174	90
66 GEORGIA INSTITUTE OF TECH	719	448	254	304	386	219	127	253
67 NOVA UNIVERSITY	697	691	0	0	634	670	0	0
68 S DAK SCH MINES & TECH	663	815	1,065	1,067	582	650	752	956
69 U OF CAL SANTA BARBARA	645	551	510	158	590	500	464	157
70 UNIV OF NEVADA - RENO	634	794	556	275	234	259	232	216
TOTAL 1ST 70 INSTS.	229,388	208,292	184,837	159,247	164,590	152,310	142,136	121,211
71 UNIV OF MISSOURI ROLLA	633	907	524	111	56	58	17	41
72 NEW MEXICO STATE UNIV	581	415	576	344	327	216	165	262
73 NEW ENGLAND INSTITUTE	574I	0	0	0	245I	0	0	0
74 SUNY COLLEGE OSWEGO	534	578	345	58	79	90	72	22
75 SUNY COL OF ENV SCI & FOR	520	709	739	312	95	176	230	12
76 RICE UNIVERSITY	519	399	321	368	387	292	264	320
77 WASHINGTON STATE UNIV	516	322	906	1,463	154	162	0	232
78 CORNELL UNIVERSITY	486	329	334	284	476	321	272	198
79 SOUTHERN METHODIST UNIV	459	460	507	246	293	291	478	211
80 UNIVERSITY OF NEW MEXICO	458	229	306E	291	298	225	236	260
TOTAL 1ST 80 INSTS.	235,168	212,638	189,195	162,724	167,306	154,139	143,998	122,769
81 CLEMSON UNIVERSITY	453	208	294	197	179	156	157	162
82 SAN JOSE ST UNIV	443	320	128	71	252	246	100	41
83 UNIV OF SOUTH CAROLINA	436	510	174	157E	340	297	160	142
84 UNIV OF NEW ORLEANS	424	246	118	0	405	238	0	0
85 US NAVAL POSTGRAD SCHOOL	418	417	522	280	418	417	522	280
86 U PUERTO RICO MAYAGUEZ	418	349	314E	283E	222	167	150E	135
87 UNIV OF MISSOURI COLUMBIA	413	184	168	219	243	164	141	164
88 BOSTON COLLEGE	405	470	351E	319	305	400	187E	170
89 MONT COL MINRL SCI & TECH	403	197	0	0	258	130	0	0
90 EAST CAROLINA UNIVERSITY	403	336	124	92	102	92	73	56
TOTAL 1ST 90 INSTS.	239,584	215,876	191,281	164,278	170,030	156,445	145,468	123,882
91 UNIV OF NORTH DAKOTA	384	11	52	32	374	11	30	23
92 UNIV OKLAHOMA	380	400	417	187	315	340	370	154
93 S U N Y SYSTEM OFFICE	372I	341E	299I	217I	298I	287E	248I	171E
94 PURDUE UNIV ALL CAMPUSES	372	358	288	2,225	331	337	265	1,004
95 CASE WESTERN RESERVE UNIV	356	334	305	381	305	258	238	253
96 UNIV OF NEW HAMPSHIRE	354	557	213	427	106	419	180	349
97 UNIVERSITY OF ARKANSAS	344	171	933	753	280	151	402	149
98 DARTMOUTH COLLEGE	331	193	268	162	302	180	254	162
99 ST LOUIS UNIV	318	241	285	379	306	230	270	360
100 UNIV OF MD COLLEGE PARK	306	279	2,234	2,015	61	41	785	836
TOTAL 1ST 100 INSTS.	242,901	218,761	196,575	171,056	172,706	158,699	148,530	127,523
TOTAL ALL OTHER INSTS.	12,132	16,228	13,073	16,327	7,860	9,599	9,097	11,316

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-26.

TOTAL LIFE SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS				
	LIFE SCIENCES 1975	TOTAL 1974	TOTAL 1973	LIFE SCIENCES TOTAL	BIO-LOGICAL SCIENCES	AGRI-CULTURAL SCIENCES	MEDICAL	OTHER
UNITED STATES TOTAL	1,895,008	1,626,020	1,529,290	1,895,008	604,251	381,953	837,130	71,674
1 UNIVERSITY OF MINNESOTA	50,752	39,548	33,946	50,752	8,399	16,462	25,891	0
2 JOHNS HOPKINS UNIVERSITY	45,038	39,470	33,895	45,038	12,609	0	23,092	9,337
3 UNIV OF WISCONSIN-MADISON	44,892	37,943	31,284	44,892	15,885	9,734	20,594	679
4 UNIVERSITY OF WASHINGTON	43,620	37,594	34,940	43,620	9,686	5,417	27,511	1,006
5 U OF CAL SAN FRANCISCO	43,261	33,696	29,023	43,261	0	0	43,261	0
6 UNIVERSITY OF CHICAGO	42,075	35,817	34,427	42,075	16,816	0	25,259	0
7 CORNELL UNIVERSITY	39,712	36,345	35,537	39,712	7,676	18,394	13,642	0
8 HARVARD UNIVERSITY	39,652	34,166	33,295	39,652	20,015	22	19,615	0
9 COLUMBIA UNIV MAIN DIV	38,243	30,375	27,745	38,243	12,745	866	18,422	6,210
10 U OF CAL LOS ANGELES	35,097	28,453	30,370	35,097	2,766	0	32,331	0
TOTAL 1ST 10 INSTS.	422,342	353,407	324,662	422,342	104,597	50,895	249,618	17,232
11 U OF CAL DAVIS	34,136	28,530	27,271	34,136	6,944	12,990	14,202	0
12 UNIVERSITY OF MICHIGAN	30,917	24,764	26,455	30,917	12,207	0	18,710	0
13 UNIV OF PENNSYLVANIA	30,907	29,473	24,767	30,907	8,522	0	20,351	2,034
14 YALE UNIVERSITY	30,166	25,345	23,469	30,166	10,858	353	18,955	0
15 NEW YORK UNIVERSITY	30,044	23,710	24,994	30,044	5,452	0	24,592	0
16 STANFORD UNIVERSITY	29,674	22,708	22,989	29,674	9,439	0	20,235	0
17 U OF CAL BERKELEY	28,732	25,678	23,804	28,732	14,849	7,615	6,268	0
18 UNIVERSITY OF GEORGIA	28,092	26,005	15,549	28,092	4,576	22,497	1,019	0
19 UNIVERSITY OF FLORIDA	27,963	21,997	19,314	27,963	17,523	0	10,440	0
20 UNIVERSITY OF ROCHESTER	27,520	26,699	26,016	27,520	12,886	0	13,285	1,349
TOTAL 1ST 20 INSTS.	720,493	608,316	559,290	720,493	207,856	94,350	397,675	20,615
21 YESHIVA UNIVERSITY	26,247	22,451	22,302	26,247	7,612	0	14,435	4,200
22 MICHIGAN STATE UNIVERSITY	24,174	19,075	18,847	24,174	5,164	13,109	5,829	72
23 ROCKEFELLER UNIVERSITY	22,662	20,478	19,864	22,662	22,02	0	636	0
24 WASHINGTON UNIV ST LOUIS	22,458	18,424	16,808	22,458	7,846	0	12,325	2,287
25 U OF CAL SAN DIEGO	21,983	17,924	27,043	21,983	2,623	0	19,360	0
26 DUKE UNIVERSITY	21,850	16,491	17,357	21,850	7,984	143	10,968	2,755
27 OHIO STATE UNIVERSITY	21,842	17,951	15,233	21,842	1,341	10,934	9,090	277
28 UNIV OF MISSOURI COLUMBIA	20,736	19,076	18,318	20,736	2,574	11,108	6,850	204
29 BAYLOR COLLEGE OF MED	19,643	17,172	15,134	19,643	9,191	0	10,452	0
30 TEXAS A & M UNIVERSITY	19,589	17,579	15,995	19,589	436	18,083	760	310
TOTAL 1ST 30 INSTS.	941,677	794,937	746,191	941,677	274,850	147,727	488,360	30,720
31 UNIVERSITY OF MIAMI	18,717	15,783	18,481	18,717	5,107	0	11,195	2,415
32 N C STATE UNIV AT RALEIGH	18,538	16,876	16,620	18,538	5,561	12,977	0	0
33 PURDUE UNIV ALL CAMPUSES	17,619	15,099	13,216	17,619	6,656	9,185	1,976	0
34 CUNY MT SINAI SCH OF MED	17,234	12,352	11,783	17,234	4,136	0	13,098	0
35 UNIV OF STHRN CALIFORNIA	16,118	13,387	13,758	16,118	4,808	0	10,475	835
36 UNIVERSITY OF COLORADO	15,878	13,643	14,330	15,878	7,043	0	8,835	0
37 UNIV ALABAMA BIRMINGHAM	15,612	13,712	11,510	15,612	1,877	0	13,735	0
38 UNIV OF NC AT CHAPEL HILL	15,463	12,251	14,187	15,463	6,564	0	8,899	0
39 U OF TEX M D ANDERSON HOS	14,955	12,816	10,620	14,955	4,357	0	9,241	1,057
40 IOWA ST U OF SCI & TECH	14,937	13,094	11,463	14,937	2,505	10,709	1,723	0
TOTAL 1ST 40 INSTS.	1,106,948	937,946	882,161	1,106,948	323,466	180,598	567,857	35,027
41 UNIVERSITY OF IOWA	14,815	11,825	9,901	14,815	4,681	0	10,134	0
42 OREGON STATE UNIVERSITY	14,453	12,818	11,849	14,453	4,472	9,439	475	67
43 MISSISSIPPI STATE UNIV	13,853	11,761	8,679	13,853	1,592	11,849	0	412
44 MASS INST OF TECHNOLOGY	13,422	11,503	10,105	13,422	11,349	0	2,073	0
45 UNIV OF NEBRASKA - LINCLN	13,213	10,622	9,918	13,213	2,221	10,032	960	0
46 VANDERBILT UNIVERSITY	13,065	11,585	11,759	13,065	6,416	38	4,676	1,933
47 BOSTON UNIVERSITY	13,053	10,300	8,667	13,053	592	0	12,461	0
48 COLORADO STATE UNIVERSITY	12,625	11,321	9,048	12,625	5,806	4,508	2,311	0
49 UNIV ILLINOIS URBANA	12,535	12,260	10,956	12,535	2,998	8,383	1,073	81
50 UNIVERSITY OF CINCINNATI	12,429	11,805	9,013	12,429	3,700	0	8,729	0
TOTAL 1ST 50 INSTS.	1,240,411	1,055,546	981,750	1,240,411	367,293	224,847	610,751	37,520

SEE FOOTNOTES AT END OF TABLE.

TABLE B-26.
CONTINUED

TOTAL LIFE SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING DOLLAR AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS				
	LIFE SCIENCES TOTAL			LIFE SCIENCES TOTAL	BIO-LOGICAL SCIENCES	AGRI-CULTURAL SCIENCES	MEDICAL	OTHER
	1975	1974	1973					
51 TEMPLE UNIVERSITY	12,373	12,259	8,692	12,373	6,611	0	5,737	25
52 UNIVERSITY OF PITTSBURGH	12,058	9,803	10,520	12,058	5,193	0	4,617	2,248
53 NORTHWESTERN UNIVERSITY	12,006	8,241	8,160	12,006	3,459	0	7,069	1,478
54 LSU CTR AGR SCI/RUR DEV	11,823	10,243	10,974E	11,823	1,609	10,214	C	0
55 CASE WESTERN RESERVE UNIV	11,606	10,223	9,626	11,606	3,681	0	7,925	0
56 SUNY UPSTATE MEDICAL CTR	11,391	9,237	9,383	11,391	1,755	0	4,018	5,818
57 UNIVERSITY OF UTAH	11,551	12,561	13,559	11,551	5,415	0	4,593	1,543
58 U OF CAL RIVERSIDE	11,258	9,381	8,544	11,258	4,847	6,411	0	0
59 UNIVERSITY OF ARIZONA	10,792	10,531	11,302	10,792	2,477	5,067	3,072	176
60 UNIVERSITY OF CONNECTICUT	10,631	9,066	10,076	10,631	5,671	2,401	2,496	63
TOTAL 1ST 60 INSTS.	1,356,300	1,156,387	1,083,017	1,356,300	408,217	246,940	650,272	48,871
61 WASHINGTON STATE UNIV	10,594	9,527	9,248	10,594	340	9,465	789	0
62 TULANE UNIVERSITY	10,543	9,918	10,756	10,543	3,776	0	4,388	2,379
63 RUTGERS THE STATE UNIV	10,476	11,343	9,196	10,476	5,512	4,607	126	33
64 SUNY BUFFALO	10,428	9,659	8,774	10,428	3,976	0	6,452	0
65 EMORY UNIVERSITY	10,386	8,273	7,765	10,386	2,190	0	6,329	1,867
66 KANSAS ST UNIVERSITY	10,373	9,174	8,569	10,373	942	9,284	146	0
67 UNIV OF MD BALTIMORE	9,837	7,930	6,812	9,837	4,919	0	4,710	208
68 UNIVERSITY OF HAWAII	9,632	7,496	9,208	9,632	4,338	2,767	865	1,662
69 U PUERTO RICO MAYAGUEZ	9,592	6,850	7,947E	9,592	96	9,496	0	0
70 VIRGINIA POLYTECHNIC INST	9,418	7,174	7,086	9,418	3,060	5,564	0	794
TOTAL 1ST 70 INSTS.	1,457,581	1,245,717	1,168,398	1,457,581	437,387	290,303	674,077	55,814
71 UNIV OF KENTUCKY ALL CAM	9,392	8,602E	8,481	9,392	2,356	0	4,246	2,790
72 UNIV OF VT & ST AGRIC COL	9,242	6,621	5,671	9,242	2,396	1,663	4,298	885
73 U TEX GALVESTON MED BRAN	9,099	4,010	6,534	9,099	5,910	0	2,843	346
74 AUBURN UNIVERSITY	9,063	7,574	6,277	9,063	1,846	7,048	169	0
75 SUNY DOWNSTATE MED CTR	8,885	7,533	5,268	8,885	2,094	0	6,791	0
76 INDIANA UNIVERSITY-PURDUE	8,715	8,090	7,682	8,715	3,007	0	5,708	0
77 U TEX HLTH SCI CTR DALLAS	8,436	6,969	6,258	8,436	0	0	8,436	0
78 CLEMSON UNIVERSITY	8,426	7,019	4,941	8,426	89	8,314	23	0
79 PENNSYLVANIA STATE UNIV	8,285	11,979	10,191E	8,285	1,275	5,338	586	1,086
80 ST LOUIS UNIV	7,808	4,418	4,549	7,808	3,785	0	4,023	0
TOTAL 1ST 80 INSTS.	1,544,932	1,319,134	1,235,250	1,544,932	460,145	312,666	711,200	60,921
81 OKLAHOMA STATE UNIVERSITY	7,739	7,100	7,031	7,739	1,953	4,723	1,063	0
82 UNIVERSITY OF IDAHO	7,679	6,435	5,470	7,679	2,266	4,994	419	0
83 UNIVERSITY OF ARKANSAS	7,470	6,808	5,153	7,470	859	6,611	0	0
84 U TENN MED UNITS MEMPHIS	7,444	6,142	7,081	7,444	1,413	0	5,675	356
85 U OF CAL IRVINE	7,401	5,372	4,163	7,401	2,202	0	5,199	0
86 VIRGINIA COMMONWLTH UNIV	7,315	6,871	6,850	7,315	2,218	0	5,097	0
87 UNIVERSITY OF VIRGINIA	7,292	5,977	4,867	7,292	3,709	0	3,583	0
88 GEORGETOWN UNIVERSITY	7,250	6,171	5,002	7,250	2,260	0	4,990	0
89 ALBANY MED COL OF UNION U	6,939	5,980	6,598	6,939	1,728E	0	5,211E	0
90 THOM JEFFERSON UNIV HOSP	6,915	5,460	4,847	6,915	1,798	0	5,117	0
TOTAL 1ST 90 INSTS.	1,618,376	1,381,450	1,292,312	1,618,376	480,551	328,994	747,554	61,277
91 U TENN INST OF AGRICULT	6,748	4,788	4,407	6,748	0	6,748	0	0
92 UNIV OF MD COLLEGE PARK	6,288	5,776	4,991	6,288	981	5,307	0	0
93 U TEX MED SCH HOUSTON	6,249	4,625	3,812	6,249	2,595	0	2,291	1,363
94 U OF ILL MEDICAL CENTER	6,189	6,185	6,531	6,189	2,663	0	3,526	0
95 NORTH DAKOTA STATE UNIV	6,134	5,037	4,835	6,134	3,400	2,734	0	0
96 NEW YORK MEDICAL COLLEGE	6,056	5,473	4,615	6,056	3,050	0	3,006	0
97 THE MED COL OF WISCONSIN	5,924	5,386	5,066	5,924	1,765	0	4,159	0
98 TUFTS UNIVERSITY	5,889	6,478	6,216	5,889	4,026	0	1,863	0
99 GEORGE WASHINGTON UNIV	5,817	5,899	6,608	5,817	694	0	5,123	0
100 UNIVERSITY OF KANSAS	5,685	7,995E	9,010	5,685	1,658	56	3,182	789
TOTAL 1ST 100 INSTS.	1,679,355	1,439,092	1,348,603	1,679,355	501,383	343,639	770,704	63,629
TOTAL ALL OTHER INSTS.	215,653	186,928	180,687	215,653	102,868	38,114	66,426	8,245

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-27.

TOTAL AND FEDERALLY FINANCED
BIOLOGICAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL BIOLOGICAL SCIENCE EXPENDITURES				FEDERALLY FINANCED BIOLOGICAL EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	604,251	509,611	557,497	430,362	432,265	365,171	398,924	307,263
1 ROCKEFELLER UNIVERSITY	22,026	19,239	18,721	12,804	9,259	8,225	7,447	6,663
2 HARVARD UNIVERSITY	20,015	17,044	14,425I	14,835I	16,743	14,209	13,117I	10,912I
3 UNIVERSITY OF FLORIDA	17,523	16,755	13,463	12,949	2,378	2,496	1,835	1,963
4 UNIVERSITY OF CHICAGO	16,816	14,467	12,748	9,451	13,098	10,952	9,562	7,785
5 U OF CAL BERKELEY	14,849	5,004	11,929I	4,380E	10,305	4,383	10,092I	4,002E
6 UNIV OF WISCONSIN-MADISON	13,885	12,784	9,847E	7,400I	7,182	6,804	4,814E	3,851I
7 UNIVERSITY OF ROCHESTER	12,886	11,733	10,150	8,945	10,311	9,796	8,821	8,141
8 COLUMBIA UNIV MAIN DIV	12,745	10,101	8,906I	7,193I	10,166	8,444	7,710I	6,220I
9 JOHNS HOPKINS UNIVERSITY	12,609	12,537	8,409I	7,208I	10,893	10,283	7,999I	6,224I
10 UNIVERSITY OF MICHIGAN	12,207	10,189	10,023	8,228	8,700	7,460	7,206	5,976
TOTAL 1ST 10 INSTS.	155,561	129,853	118,641	93,391	99,035	83,052	78,605	61,737
11 MASS INST OF TECHNOLOGY	11,349	9,803	8,754	7,901	9,646	8,115	7,797	7,052
12 YALE UNIVERSITY	10,858	8,966	6,222I	6,743I	9,843	8,000	5,771I	6,431I
13 UNIVERSITY OF WASHINGTON	9,686	8,768	8,650I	6,737I	9,035	8,102	8,180I	6,100I
14 STANFORD UNIVERSITY	9,439	7,288	7,105	6,947	8,744	6,903	6,670	6,163
15 BAYLOR COLLEGE OF MED	9,191	8,035	7,081	4,038	8,648	7,470	6,317	3,517
16 UNIV OF PENNSYLVANIA	8,522	7,018	1,761I	488I	7,476	6,157	1,761I	488I
17 UNIVERSITY OF MINNESOTA	8,399	6,784	5,550I	4,997I	7,033	5,657	4,293I	3,733I
18 DUKE UNIVERSITY	7,984	7,064	7,166I	5,260I	7,512	6,492	7,034I	5,226I
19 WASHINGTON UNIV ST LOUIS	7,846	6,533	6,308	5,493	6,965	5,802	5,597	4,747
20 CORNELL UNIVERSITY	7,676	6,468	6,455I	6,227I	5,686	4,845	4,570I	4,924I
TOTAL 1ST 20 INSTS.	246,511	206,560	183,693	148,222	179,621	150,595	136,595	110,078
21 YESHIVA UNIVERSITY	7,612	7,857	16,727	2,150E	6,120	6,445	14,218	1,500E
22 UNIVERSITY OF COLORADO	7,043	6,578	6,721	4,466	5,749	5,078	5,112	3,642
23 U OF CAL DAVIS	6,944	471	11,929I	575E	2,523	410	8,070I	281E
24 PURDUE UNIV ALL CAMPUSES	6,658	2,117	1,839I	1,205I	4,051	1,929	1,825I	1,142I
25 TEMPLE UNIVERSITY	6,611	2,561	420	1,507	5,173	2,058	267	366
26 UNIV OF NC AT CHAPEL HILL	6,564	4,978	7,008	5,904	5,922	4,537	6,126	4,718
27 VANDERBILT UNIVERSITY	6,416	5,671	5,539I	4,474I	5,826	4,989	4,916I	3,849I
28 U TEX GALVESTON MED BRAN	5,910	2,460	3,628	2,440	3,197	1,954	1,675	1,031
29 COLORADO STATE UNIVERSITY	5,806	4,492	3,511I	3,316I	4,703	3,494	2,293I	2,249I
30 UNIVERSITY OF CONNECTICUT	5,677	5,108	5,755I	4,336I	3,436	3,095	3,382I	2,708I
TOTAL 1ST 30 INSTS.	311,752	248,873	246,770	178,595	226,321	184,564	184,579	131,564
31 N C STATE UNIV AT RALEIGH	5,561	5,002	4,986I	1,666I	1,655	1,562	1,929I	599I
32 RUTGERS THE STATE UNIV	5,512	7,788	6,393I	5,428I	1,801	2,947	3,866I	3,122I
33 NEW YORK UNIVERSITY	5,452	2,597	5,302I	5,038I	4,095	1,950	3,887I	3,766I
34 UNIVERSITY OF UTAH	5,415	6,239	6,868	2,522	5,035	4,124	5,935	2,170
35 UNIVERSITY OF PITTSBURGH	5,193	4,394	4,220	4,002	4,476	3,662	3,701	3,456
36 MICHIGAN STATE UNIVERSITY	5,169	4,148	2,404I	1,062I	4,389	3,981	1,633I	1,062I
37 UNIVERSITY OF MIAMI	5,107	6,410	5,944	4,669	3,779	4,270	4,050	3,128
38 UNIV OF MD BALTIMORE	4,919	3,989	1,427	0	4,285	3,382	1,524	0
39 U OF CAL RIVERSIDE	4,847	24	3,938I	3,025I	1,456	0	1,132I	878I
40 UNIV OF STHRN CALIFORNIA	4,808	4,401	5,455	4,410	4,390	3,878	4,662	3,762
TOTAL 1ST 40 INSTS.	365,730	296,866	293,725	210,417	261,662	214,420	216,698	153,507
41 UNIVERSITY OF IOWA	4,681	3,816	3,739	3,412	4,146	3,431	3,496	2,892
42 UNIVERSITY OF GEORGIA	4,576	4,222	13,697	13,775	3,836	2,770	6,249	6,135
43 OREGON STATE UNIVERSITY	4,472	4,407	4,037I	2,702I	2,055	2,261	1,938I	1,013I
44 U OF TEX M D ANDERSON HOS	4,357	4,178	2,441	1,084	1,999	1,686	1,108	349
45 UNIVERSITY OF HAWAII	4,338	3,707	6,497E	6,308E	3,303	2,867	4,359E	3,823E
46 CUNY MT SINAI SCH OF MED	4,136	2,873	3,068	3,394	3,238	2,168	3,464	3,385
47 TUFTS UNIVERSITY	4,026	3,072	2,858I	2,537I	3,429	2,673	2,654I	2,068I
48 SUNY BUFFALO	3,976	2,887	4,395	3,308	3,708	2,680	2,221	2,403
49 UNIV OF TEXAS AT AUSTIN	3,913	4,184	4,949	4,349	2,709	2,812	3,343	3,379
50 CASE WESTERN RESERVE UNIV	3,881	3,333	3,421	3,067	3,342	2,841	2,876	2,534
TOTAL 1ST 50 INSTS.	406,086	330,543	344,827	256,413	293,427	240,609	246,406	181,488

SEE FOOTNOTES AT END OF TABLE.

TABLE B-27.
CONTINUED

TOTAL AND FEDERALLY FINANCED
BIOLOGICAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL BIOLOGICAL SCIENCE EXPENDITURES				FEDERALLY FINANCED BIOLOGICAL EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 CALIFORNIA INST OF TECH	3,848	3,247	3,108	2,701	3,340	2,965	2,843	2,519
52 ST LOUIS UNIV	3,765	3,150	3,276	3,252	3,528	2,916	3,145E	3,050
53 TULANE UNIVERSITY	3,776	3,552	3,863	1,861E	3,269	3,075	3,340	1,420E
54 UNIVERSITY OF VIRGINIA	3,709	3,427	2,928	2,115	2,844	2,530	2,005	1,58(
55 UNIVERSITY OF CINCINNATI	3,700	1,137	1,974	1,754	2,838	820	915	1,287
56 NORTHWESTERN UNIVERSITY	3,459	2,969	2,133	3,037	2,673	2,346	2,365	1,698
57 NORTH DAKOTA STATE UNIV	3,400	2,829	2,716I	2,533I	771	829	707I	686I
58 UTAH STATE UNIVERSITY	3,233	3,267	2,919I	3,028I	2,772	2,599	2,449I	2,459I
59 VIRGINIA POLYTECHNIC INST	3,080	2,215	2,113I	775I	1,322	1,014	1,050I	262I
60 NEW YORK MEDICAL COLLEGE	3,050	1,792	1,634	1,365	2,236E	1,330	1,229	982
TOTAL 1ST 60 INSTS.	441,126	356,116	372,189	279,634	319,020	261,033	268,454	197,431
61 INDIANA UNIVERSITY-PURDUE	3,007	924	833	1,443	2,211	777	640	1,023
62 BRANDEIS UNIVERSITY	3,001	2,644	766	2,373E	2,726	2,340	736	2,068E
63 UNIV ILLINOIS URBANA	2,998	2,825	3,930	2,289I	2,699	2,566	7,609	2,284I
64 UNIVERSITY OF ALASKA	2,793	1,946	1,650I	1,145I	1,227	1,377	1,358I	774I
65 U OF CAL LOS ANGELES	2,766	2,570	10,268I	14,475E	2,400	2,238	10,268I	12,878E
66 U OF ILL MEDICAL CENTER	2,663	2,438	2,564	2,309	1,843	1,743	1,987	1,189
67 U OF CAL SAN DIEGO	2,623	2,708	14,661	14,560E	2,369	2,552	11,306	11,419E
68 U TEX MED SCH HOUSTON	2,595	673	2,469	287	2,493	605	2,140	283
69 UNIV OF MISSOURI COLUMBIA	2,574	1,823	1,708I	1,303I	1,123	434	531I	414I
70 DARTMOUTH COLLEGE	2,512	1,636	2,150	1,992	2,305	1,558	2,033	1,882
TOTAL 1ST 70 INSTS.	468,656	378,325	419,208	321,870	340,396	277,223	307,070	231,645
71 IOWA ST U OF SCI & TECH	2,505	1,918	9,931	1,196I	903	508	2,779	364I
72 UNIVERSITY OF ARIZONA	2,477	2,835	2,856I	2,147I	1,449	1,571	1,883I	1,439I
73 UNIV OF VT & ST AGRIC COL	2,396	1,587	1,095I	726I	1,788	1,214	988I	726I
74 UNIV OF KENTUCKY ALL CAM	2,356	4,473E	2,155I	1,688I	1,218	2,203E	1,594I	1,409I
75 MEDICAL COLL OF GEORGIA	2,322	1,914	2,260E	0	1,136	937	1,033E	0
76 PRINCETON UNIVERSITY	2,276	2,086	2,050	1,968	1,607	1,403	1,427	1,373
77 UNIVERSITY OF IDAHO	2,266	2,010	2,203I	1,437I	754	777	807I	397I
78 GEORGETOWN UNIVERSITY	2,260	2,136	311	967E	1,440	1,384	228	946E
79 UNIV OF MO SYSTEM OFC	2,231	1,449	1,353	2,715	108	103	213	2,219
80 UNIV OF NEBRASKA - LINCLN	2,221	2,528	2,536I	2,846I	526	766	1,095I	1,161I
TOTAL 1ST 80 INSTS.	491,968	401,259	444,958	337,560	351,327	288,089	319,117	241,679
81 VIRGINIA COMMONWLTH UNIV	2,218	2,361	2,195	1,107	1,605	1,756	1,831	855
82 U OF CAL IRVINE	2,202	1,685	1,184I	920I	2,011	1,543	1,184I	920I
83 EMORY UNIVERSITY	2,190	1,615	1,522	1,221	2,107	1,526	1,490	1,135
84 THE MED COLL OF PENNA	2,105	1,611	1,096	851	1,722	1,068	912	660
85 SUNY DOWNSTATE MED CTR	2,094	1,732	1,320	1,257	1,833	1,468	1,109	944
86 RUSH MEDICAL COLLEGE	2,002	943	2,885	1,433E	1,647	893	1,613	680E
87 SUNY STONY BROOK	1,984	1,072	1,338	1,044	1,747	903	1,057	745
88 WAYNE STATE UNIVERSITY	1,977	1,450	950	969	1,601	1,279	832	708
89 OKLAHOMA STATE UNIVERSITY	1,953	2,506	2,164I	2,094I	864	1,207	1,013I	892I
90 LA ST U MED CTR N ORLEANS	1,918	1,541	1,337	1,381	1,419	1,136	1,068	976
TOTAL 1ST 90 INSTS.	512,611	417,775	460,949	349,857	367,883	300,868	331,226	250,194
91 UNIV ALABAMA BIRMINGHAM	1,877	1,571	1,728	1,180	1,580	1,309	1,555	1,093
92 AUBURN UNIVERSITY	1,846	1,167	1,029I	986I	1,027	899	1,028I	880I
93 THOM JEFFERSON UNIV HOSP	1,798	1,420	1,309	1,009	1,056	1,115	1,046	787
94 THE MED COLL OF WISCONSIN	1,765	1,686	1,253E	0	1,032	1,270	857E	0
95 COL OF MED & DENT OF N J	1,755	2,758	2,500	510E	1,392	2,255	2,225	445E
96 SUNY UPSTATE MEDICAL CTR	1,755	1,494	1,613	1,512	1,410	1,181	1,548	1,254
97 FLORIDA STATE UNIVERSITY	1,736	783	753	628	1,096	635	611	534
98 ALBANY MED COL OF UNION U	1,728E	1,487E	1,641E	1,450	996E	777E	774E	650
99 U OF OREGON MED SCHOOL	1,693	1,388	1,924E	1,749	1,318	1,130	1,450E	1,318
100 UNIVERSITY OF KANSAS	1,658	2,044	3,223I	2,901I	1,326	1,559	2,882I	2,509I
TOTAL 1ST 100 INSTS.	530,222	433,793	477,922	361,582	380,116	312,998	345,202	259,664
TOTAL ALL OTHER INSTS.	74,029	75,818	79,575	68,780	52,149	52,173	53,722	47,599

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-28.

TOTAL AND FEDERALLY FINANCED
MEDICAL R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL MEDICAL EXPENDITURES				FEDERALLY FINANCED MEDICAL EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	837,130	712,787	645,088	592,953	641,507	543,467	485,962	436,751
1 U OF CAL SAN FRANCISCO	43,261	33,096	20,728	16,662	36,450	27,979	17,442	13,961
2 U OF CAL LOS ANGELES	32,331	25,883	13,237	11,054E	26,406	21,588	10,652	8,897E
3 UNIVERSITY OF WASHINGTON	27,511	22,703	20,209	15,099	23,187	19,506	17,802	12,845
4 UNIVERSITY OF MINNESOTA	25,891	20,107	15,836	12,400	18,503	14,166	10,469	8,440
5 UNIVERSITY OF CHICAGO	25,259	21,350	21,679	18,835	17,475	14,134	14,077	11,874
6 NEW YORK UNIVERSITY	24,592	21,113	19,109	18,490	18,353	15,145	12,837	12,633
7 JOHNS HOPKINS UNIVERSITY	23,092	21,184	24,739	21,565	19,051	17,376	21,715	17,380
8 UNIV OF WISCONSIN-MADISON	20,594	15,198	13,600	11,178	11,938	9,500	8,408	6,655
9 UNIV OF PENNSYLVANIA	20,351	20,099	21,056	21,566	16,653	16,447	15,528	17,259
10 STANFORD UNIVERSITY	20,235	15,420	15,884	14,703	16,291	13,845	14,363	12,565
TOTAL 1ST 10 INSTS.	263,117	216,753	186,077	164,552	206,307	169,686	143,293	122,509
11 HARVARD UNIVERSITY	19,615	17,119	18,867	16,474	15,405	14,697	15,921	11,830
12 U OF CAL SAN DIEGO	19,360	15,216	12,362	12,134	17,353	13,546	10,916	10,731
13 YALE UNIVERSITY	16,955	16,067	16,639	15,957	12,484	12,939	13,987	11,472
14 UNIVERSITY OF MICHIGAN	18,710	14,575	16,432	14,057	11,789	9,714	10,476	8,727
15 COLUMBIA UNIV MAIN DIV	18,422	15,822	14,215	13,648	13,195	11,083	9,986	8,453
16 YESHIVA UNIVERSITY	14,435	12,348	5,575	21,000E	11,600	10,478	4,739	14,700E
17 U OF CAL DAVIS	14,202	12,759	3,125	2,482E	12,227	11,145	2,649	2,048E
18 UNIV ALABAMA BIRMINGHAM	13,735	12,141	9,782	8,637	13,099	11,418	9,132	7,715
19 CORNELL UNIVERSITY	13,642	12,409	11,649	7,831	7,913	7,095	6,651	4,379
20 UNIVERSITY OF ROCHESTER	13,285	13,414	14,307	11,607	8,259	9,238	11,05_	9,601
TOTAL 1ST 20 INSTS.	427,478	358,623	309,030	285,379	331,631	261,039	238,802	212,165
21 CUNY MT SINAI SCH OF MED	13,098	9,479	6,717	6,434	10,254	6,372	4,541	4,560
22 BOSTON UNIVERSITY	12,461	9,867	7,702	6,252	11,042	8,812	7,078	5,774
23 WASHINGTON UNIV ST LOUIS	12,325	9,883	8,818	7,495	10,787	8,928	7,953	6,610
24 UNIVERSITY OF MIAMI	11,195	10,934	9,395	7,936	8,285	7,460	6,592	5,317
25 DUKE UNIVERSITY	10,968	7,078	10,002	8,093	9,300	6,164	8,495	7,279
26 UNIV OF SthRN CALIFORNIA	10,475	8,256	6,878	6,904	8,063	6,107	5,296	5,997
27 BAYLOR COLLEGE OF MED	10,452	9,137	8,053	7,891	9,470	8,180	6,918	6,950
28 UNIVERSITY OF FLORIDA	10,440	5,242	5,631	5,094	8,276	3,744	4,540	2,976
29 UNIVERSITY OF IOWA	10,134	8,007	6,162	5,709	8,342	6,849	5,200	4,322
30 U OF TEX M D ANDERSON HOS	9,541	6,634	6,179	7,293	6,581	6,005	5,606	5,371
TOTAL 1ST 30 INSTS.	536,567	445,762	386,767	353,176	424,954	350,460	300,973	267,321
31 OHIO STATE UNIVERSITY	9,090	7,994	6,760	7,328	5,982	5,033	5,194	5,518
32 UNIV OF NC AT CHAPEL HILL	8,899	7,273	7,179	5,383	6,901	6,061	6,030	2,978
33 UNIVERSITY OF COLORADO	8,835	7,085	6,882	6,431	7,494	5,947	5,387	5,236
34 UNIVERSITY OF CINCINNATI	8,729	10,668	7,039	6,550	5,630	4,420	3,887	3,417
35 U TEX HLTH SCI CTR DALLAS	8,436	6,959	4,010	3,553	6,398	5,349	3,068	2,758
36 CASE WESTERN RESERVE UNIV	7,925	6,890	6,405	6,147	6,022	5,216	5,292	4,835
37 NORTHWESTERN UNIVERSITY	7,069	4,753	4,691	4,301	4,440*	2,725	2,280	2,293
38 UNIV OF MISSOURI COLUMBIA	6,850	4,905	5,101	6,418	5,147	4,224	2,774	5,137
39 SUNY DOWNSTATE MED CTR	6,791	5,803	4,248	3,707	5,303	4,533	3,017	2,705
40 SUNY BUFFALO	6,432	6,847	4,279	4,240	6,122	6,087	2,067	2,830
TOTAL 1ST 40 INSTS.	617,642	514,789	443,661	407,190	479,121	399,363	340,985	305,088
41 EMORY UNIVERSITY	6,329	4,872	4,438	4,366	5,297	3,902	3,573	3,642
42 U OF CAL BERKELEY	6,268	5,719	2,512	2,056E	5,736	5,281	2,265	1,851E
43 MICHIGAN STATE UNIVERSITY	5,829	4,502	3,814	2,836	4,719	3,927	2,797	1,685
44 TEMPLE UNIVERSITY	5,737	10,694	8,471	9,886	3,838	6,892	4,846	6,054
45 INDIANA UNIVERSITY-PURDUE	5,708	7,166	7,049	5,099	3,872	4,823	4,990	3,754
46 U TENN MED UNITS MEMPHIS	5,675	4,859	5,785	3,954	5,165	4,206	4,959	3,459
47 ALBANY MED COL OF UNION U	5,211E	4,493E	4,957E	4,381	3,019E	2,362E	2,353E	1,976
48 U OF CAL IRVINE	5,199	3,887	2,279	1,497	4,693	2,959	1,855	410
49 GEORGE WASHINGTON UNIV	5,223	2,922	1,049	1,056	4,225	2,495	1,578	849
50 THOM JEFFERSON UNIV HOSP	5,117	4,040	3,938	2,872	4,363	3,100	2,027	2,039
TOTAL 1ST 50 INSTS.	673,839	567,742	490,957	445,190	523,830	439,568	375,026	331,307

SEE FOOTNOTES AT END OF TABLE.

TABLE B-28.
CONTINUED

TOTAL AND FEDERALLY FINANCED
MEDICAL R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL MEDICAL EXPENDITURES				FEDERALLY FINANCED MEDICAL EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 VIRGINIA COMMONWLTH UNIV	5,097	4,910	4,655	4,497	3,831	3,396	3,451	3,145
52 GEORGETOWN UNIVERSITY	4,990	4,085	4,09[illegible]	3,011[illegible]	3,084	2,402	2,692	2,322[illegible]
53 UNIV OF MD BALTIMORE	4,710	3,766	3,385	3,270	3,998	3,247	4,37[illegible]	3,747
54 U OF NEB MED C AT OMAHA	4,702	4,211	3,[illegible]65	3,059	2,987	3,038	2,712[illegible]	2,466
55 VANDERBILT UNIVERSITY	4,678	4,026	3,951	3,134	3,856	3,308	3,262	3,291
56 UNIVERSITY OF PITTSBURGH	4,617	3,923	4,267	4,051	3,474	3,058	3,407	3,185
57 UNIVERSITY OF UTAH	4,593	3,[illegible]22	4,304	3,790	4,056	3,869	4,226	3,802
58 TULANE UNIVERSITY	4,388	4,128	4,470	3,651[illegible]	2,486	2,309	2,532	1,158[illegible]
59 UNIV OF VT & ST AGRIC COL	4,298	2,735	2,210	2,067	3,509	2,02[illegible]	1,775	1,888
60 UNIV OF KENTUCKY ALL CAM	4,246	2,007[illegible]	3,609	1,749	2,296	1,354[illegible]	1,471	1,225
TOTAL 1ST 60 INSTS.	720,156	607,985	532,764	486,477	557,389	469,025	407,925	363,536
61 THE MED COLL OF WISCONSIN	4,159	3,500	3,063[illegible]	3,062[illegible]	2,974	2,162	2,414[illegible]	2,275
62 ST LOUIS UNIV	4,023	1,132	938	949	3,459	661	611	604
63 SUNY UPSTATE MEDICAL CTR	4,018	3,036	7,770	5,594	1,937	1,462	5,172	4,255
64 COL OF MED & DENT OF N J	3,904	1,570	957	1,303[illegible]	2,993	1,039	677	939[illegible]
65 U OF OREGON MED SCHOOL	3,714	4,315	4,112[illegible]	3,738	2,892	3,530	3,121	2,837
66 UNIVERSITY OF VIRGINIA	3,583	2,550	2,339	2,185	2,309	1,632	1,458	1,410
67 U OF NEL MEDICAL CENTER	3,526	3,747	3,967	4,514	1,909	2,222	2,321	3,155
68 UNIVERSITY OF NEW MEXICO	3,443	1,170	0	1,614	2,790	945	0	1,424
69 U TEX HLTH SCI CR SAN ANT	3,282	2,547	2,308	800	2,451	1,892	1,777	452
70 UNIVERSITY OF KANSAS	3,182	4,287[illegible]	3,059	2,224	2,673	4,272	2,842	2,066
TOTAL 1ST 70 INSTS.	756,992	635,845	561,877	513,320	583,982	489,442	428,318	382,953
71 UNIVERSITY OF ARIZONA	3,072	3,013	3,817	1,234	2,349	2,689	2,881	788
72 NEW YORK MEDICAL COLLEGE	3,006	2,081	2,981	2,298	2,521	2,944	2,321	1,445
73 U TEX GALVESTON MED BRAN	2,843	2,150	2,906	2,905	2,344	1,679	2,549	2,074
74 UNIVERSITY OF LOUISVILLE	2,839	726[illegible]	930	679	1,892	593[illegible]	504	431
75 UNIV OF MISSISSIPPI	2,628	2,459	2,743	3,945[illegible]	1,893	1,402	1,588	2,868[illegible]
76 UNIVERSITY OF CONNECTICUT	2,490	1,632	1,711	1,706[illegible]	1,737	1,076	1,056	1,623[illegible]
77 HOWARD UNIVERSITY	2,363	1,859[illegible]	1,859[illegible]	2,100[illegible]	2,011[illegible]	1,713[illegible]	1,446	1,365[illegible]
78 WAYNE STATE UNIVERSITY	2,321	1,768	1,602	1,446	1,537	1,297	1,119	1,035
79 COLORADO STATE UNIVERSITY	2,311	1,828	1,479	1,462	2,033	1,633	1,335	1,305
80 U TEX MED SCH HOUSTON	2,291	2,550	1,343	99	1,975	5,304	744	98
TOTAL 1ST 80 INSTS.	783,356	658,210	583,248	531,194	604,272	507,774	443,861	396,585
81 WAKE FOREST UNIVERSITY	2,230	1,868	2,424[illegible]	3,313[illegible]	1,808	1,522	2,961[illegible]	2,842[illegible]
82 LA ST U MED CTR N ORLEANS	2,168	1,991	1,894	919	1,879	1,444	992	659
83 MASS INST OF TECHNOLOGY	2,073	1,500	1,351	632	1,584	1,192	1,103	617
84 RUSH MEDICAL COLLEGE	1,994	3,367	1,191	755[illegible]	1,422	2,532	770	354[illegible]
85 PURDUE UNIV ALL CAMPUSES	1,976	2,199	1,956	1,490	1,141	1,075	870	823
86 MED UNIV OF SO CAROLINA	1,879	1,606	2,305	2,084	1,514	1,162	1,739	1,645
87 TUFTS UNIVERSITY	1,863	3,047	3,143	3,606	1,499	2,213	2,594	3,112
88 UNIV OKLAHOMA	1,832	1,414	2,293[illegible]	1,854[illegible]	1,650	1,213	2,023[illegible]	1,699[illegible]
89 IOWA ST U OF SCI & TECH	1,723	1,701	0	1,255	362	437	0	487
90 U PUERTO RICO MED SCI CMP	1,719	1,579	1,419[illegible]	1,277[illegible]	1,711	1,198	1,074[illegible]	967[illegible]
TOTAL 1ST 90 INSTS.	802,813	678,780	601,224	548,379	618,842	521,760	456,987	409,590
91 U OF ARKANSAS MED CENTER	1,650	1,615	1,822	1,607	1,136	1,084	1,441	1,403
92 MEDICAL COLL OF GEORGIA	1,643	1,863	1,464	2,672[illegible]	791	896	884	1,570[illegible]
93 BROWN UNIVERSITY	1,569	1,576	1,783	1,826	1,274[illegible]	1,408	1,610	1,399
94 SUNY STONY BROOK	1,416	644	161	574	1,221	619	161	216
95 WEST VIRGINIA UNIVERSITY	1,350	1,241	1,764	2,005[illegible]	1,194	925	1,711	1,965[illegible]
96 DARTMOUTH COLLEGE	1,210	724	1,039	955	1,155	618	953	873
97 UNIVERSITY OF THE PACIFIC	1,184	392[illegible]	491[illegible]	417	984	931	259[illegible]	200
98 MED COLL OHIO AT TOLEDO	1,095	931	1,166	1,435	830	755	1,011	1,365
99 UNIV ILLINOIS URBANA	1,073	1,059	0	813	781	691	0	622
100 OKLAHOMA STATE UNIVERSITY	1,063	0	606	622	622	0	501	476
TOTAL 1ST 100 INSTS.	816,066	688,663	611,520	561,127	628,850	528,847	465,518	419,679
TOTAL ALL OTHER INSTS.	21,064	24,124	34,168	31,806	12,657	14,020	20,444	17,072

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-29.

TOTAL AND FEDERALLY FINANCED
MATHEMATICS R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL MATHEMATICS EXPENDITURES			FEDERALLY FINANCED MATHEMATICS EXPENDITURES		
	1975	1974	1973	1975	1974	1973
UNITED STATES TOTAL	39,609	37,544	36,955	31,120	29,515	28,557
1 NEW YORK UNIVERSITY	2,925	2,634	2,579	2,813	2,501	2,507
2 UNIV OF NC AT CHAPEL HILL	2,383	1,704	190	2,346	1,704	190
3 UNIV OF WISCONSIN-MADISON	1,990	1,952	2,798	1,323	1,361	1,427
4 BOSTON COLLEGE	1,434	1,073	480	1,282	942	422I
5 IOWA ST U OF SCI & TECH	1,384	1,318	1,205	354	296	292
6 U OF CAL BERKELEY	1,245	1,195	1,329	1,114	1,092	1,120
7 U OF TEX M D ANDERSON HOS	1,151	1,008	755	829	622	514
8 BROWN UNIVERSITY	1,090	948	1,013	1,086	884	1,006
9 PRINCETON UNIVERSITY	974	845	992	654	557	664
10 MASS INST OF TECHNOLOGY	921	800	1,025	902	765	1,012
TOTAL 1ST 10 INSTS.	15,497	13,477	12,366	12,703	10,722	9,154
11 SUNY BUFFALO	908	814	592	908	770	585
12 STANFORD UNIVERSITY	783	714	752	772	711	751
13 RUTGERS THE STATE UNIV	782	718	748	465	503	578
14 UNIVERSITY OF MICHIGAN	738	612	720	538	465	568
15 UNIVERSITY OF MINNESOTA	724	782	839	453	526	595
16 UNIV ILLINOIS URBANA	714	484	493	462	456	378
17 UNIVERSITY OF CHICAGO	620	547	567	617	542	536
18 HARVARD UNIVERSITY	584	482	526	535	471	491
19 ROCKEFELLER UNIVERSITY	571	491	516	0	0	0
20 PURDUE UNIV ALL CAMPUSES	482	450	555	409	340	414
TOTAL 1ST 20 INSTS.	22,403	19,571	18,654	17,852	15,506	14,050
21 UNIVERSITY OF DAYTON	426	201	123	373	192	121
22 CORNELL UNIVERSITY	425	434	470	420	432	458
23 GEORGE WASHINGTON UNIV	420	417	443	282	271	396
24 SUNY STONY BROOK	391	317	499	368	297	477
25 REGIS COLLEGE	381	0	0	381	0	0
26 YALE UNIVERSITY	375	319	366	344	307	362
27 N C STATE UNIV AT RALEIGH	370	374	44	183	41	40
28 U OF CAL LOS ANGELES	369	458	477	353	436	467
29 CARNEGIE-MELLON UNIV	362	397	355	280	311	339
30 MICHIGAN STATE UNIVERSITY	360	525	494	297	413	417
TOTAL 1ST 30 INSTS.	26,282	23,011	21,925	21,119	18,211	17,107
31 FLORIDA STATE UNIVERSITY	360	401I	369	179	297I	294I
32 LA ST U BATON ROUGE	359	348	313	105	89	593
33 VIRGINIA POLYTECHNIC INST	357	289	295	7	142	147
34 YESHIVA UNIVERSITY	352	310	163	352	310	163I
35 OREGON STATE UNIVERSITY	331	181	189	132	57	97
36 LOMA LINDA UNIVERSITY	311	209	0	298	179	0
37 NORTHWESTERN UNIVERSITY	295	301	286	283	291	278
38 RICE UNIVERSITY	286	193	457	283	193	445
39 UNIVERSITY OF WASHINGTON	286	386	305	286	386	305
40 U OF CAL RIVERSIDE	284	327	245	202	232	208
TOTAL 1ST 40 INSTS.	29,503	25,953	24,367	23,249	20,366	18,883
41 UNIV OF TEXAS AT AUSTIN	284	284	304	140	145	179
42 UNIV OF PENNSYLVANIA	255	220	247	255	221	247
43 UNIV OF ILL CHICAGO CIR	246	185	225	246	184	225
44 UNIVERSITY OF FLORIDA	248	61	183	67	61	30
45 CALIFORNIA INST OF TECH	241	193	223	222	183	219
46 UNIVERSITY OF ROCHESTER	221	234	265	193	201	234
47 INDIANA UNIV-BLOOMINGTON	220	295	284	213	286	277
48 BRANDEIS UNIVERSITY	213	175	174	203	161	174
49 OHIO STATE UNIVERSITY	200	369	198	167	134	197
50 GEORGIA INSTITUTE OF TECH	196	111	101	105	55	50
TOTAL 1ST 50 INSTS.	31,829	28,078	26,571	25,659	22,999	20,715

SEE FOOTNOTES AT END OF TABLE.

TABLE B-29.
CONTINUED

TOTAL AND FEDERALLY FINANCED
MATHEMATICS R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL MATHEMATICS EXPENDITURES			FEDERALLY FINANCED MATHEMATICS EXPENDITURES		
	1975	1974	1973	1975	1974	1973
51 U OF CAL SAN DIEGO	195	190	200	134	181	200
52 COLORADO STATE UNIVERSITY	187	166	302	96	115	204
53 CUNY GRADUATE DIVISION	182	209	162	169	93	156
54 TEXAS A & M UNIVERSITY	181	113	41	142	90	41
55 TULANE UNIVERSITY	177	187	308	149	140	242
56 LEHIGH UNIVERSITY	166	243	239	166	222	224
57 SOUTHERN METHODIST UNIV	107	21	76	107	16	76
58 UNIVERSITY OF VIRGINIA	164	194	151	142	151	128
59 ALABAMA A & M UNIV	163	0	0	925	0	0
60 UNIV OF MD COLLEGE PARK	150	195	172	149	149	172
TOTAL 1ST 60 INSTS.	33,300	29,493	28,222	26,519	25,158	22,158
61 UNIVERSITY OF COLORADO	150	121	187	132	108	174
62 UNIVERSITY OF ARIZONA	144	187	113	75	94	46
63 UNIVERSITY OF UTAH	144	196	268	143	190	244
64 COLUMBIA UNIV MAIN DIV	136	358	441	133	289	418
65 DREXEL UNIVERSITY	137	89	31	95	59	281
66 U OF CAL SANTA BARBARA	134	134	154	122	124	153
67 RENSSELAER POLY INST	1318	1173	117	1318	1173	1171
68 UNIVERSITY OF HOUSTON	120	93	80	120	93	73
69 WASHINGTON UNIV ST LOUIS	116	95	109	116	95	109
70 UNIVERSITY OF KANSAS	114	120	318	99	88	291
TOTAL 1ST 70 INSTS.	34,894	31,033	30,038	27,685	24,475	23,811
71 UNIVERSITY OF IOWA	111	140	224	109	140	224
72 UNIV OF SthRN CALIFORNIA	111	105	130	111	105	130
73 NEW YORK INST TECH	109	0	14	0	0	0
74 JOHNS HOPKINS UNIVERSITY	104	122	160	103	100	160
75 UNIVERSITY OF NOTRE DAME	104	123	128	95	123	128
76 ESD CTR AGR SCI/RUR DEV	90	76	81	0	0	0E
77 NORTHEASTERN UNIVERSITY	87	111	201	51	61	166
78 UNIVERSITY OF OREGON	87	136	153	87	136	153
79 MILWAUKEE AREA TECH COL	84	70	69	0	0	0
80 UNIV OF SOUTH FLORIDA	84	14	1	47	12	0
TOTAL 1ST 80 INSTS.	35,862	31,930	31,201	28,288	25,152	24,772
81 CUNY BROOKLYN COLLEGE	80	51	3	75	41	31
82 PENNSYLVANIA STATE UNIV	79	74	75	77	74	75
83 UNIVERSITY OF MONTANA	78	148	134	78	147	134E
84 UNIV OF MASS AT AMHERST	76	248	60	75	58	60
85 JACKSON STATE COLLEGE	76	0	4	76	0	0
86 KANSAS ST UNIVERSITY	71	88	63	68	19	53
87 BOSTON UNIVERSITY	69	8	0	69	8	0
88 KENT STATE UNIVERSITY	69	48	47	54	44	38
89 UNIV OF MISSOURI COLUMBIA	68	43	64	51	41	56
90 CLARKSON COL OF TECH	67	53	56	67	48	50
TOTAL 1ST 90 INSTS.	36,595	32,593	31,707	28,978	25,595	25,241
91 DARTMOUTH COLLEGE	67	74	172	61	71	138
92 BRIGHAM YOUNG UNIVERSITY	66E	37	70	48E	32	54I
93 U OF WIS MILWAUKEE	63	139	142	4	7	10
94 UNIVERSITY OF DENVER	62	140	120	53	124	106
95 VIRGINIA STATE COLLEGE	59	55	10	59	55	101
96 CLEMSON UNIVERSITY	57	35	46	40	22	38
97 CASE WESTERN RESERVE UNIV	57	81	131	54	77	131
98 CUNY QUEENS COLLEGE	57	67	10	44	47	81
99 NEW MEXICO STATE UNIV	54	897	42	53	397	42
100 WAYNE STATE UNIVERSITY	53	46	42	39	33	26
TOTAL 1ST 100 INSTS.	37,190	34,180	32,478	29,433	26,980	25,809
TOTAL ALL OTHER INSTS.	2,419	3,364	4,477	1,087	2,338	2,748

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-30.

TOTAL AND FEDERALLY FINANCED
COMPUTER SCIENCE R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL COMPUTER SCIENCE EXPENDITURES 1975	1974	1973	FEDERALLY FINANCED COMPUTER SCIENCE EXPENDITURES 1975	1974	1973
UNITED STATES TOTAL	45,322	39,132	37,738	33,748	28,061	26,930
1 MASS INST OF TECHNOLOGY	6,527	7,056	7,656	5,771	6,208	6,976
2 GEORGE WASHINGTON UNIV	2,990	1,217	182	2,946	1,215	182
3 UNIV ILLINOIS URBANA	2,839	3,258	3,139	2,391	2,752	2,405
4 NEW MEXICO STATE UNIV	2,752	74	7	2,710	15	7
5 UNIV OF MD COLLEGE PARK	2,654	2,407	1,790	740	741	624E
6 STANFORD UNIVERSITY	2,419	2,389	2,587	2,371	2,364	2,564
7 CARNEGIE-MELLON UNIV	1,784	1,642	1,692	1,753	1,544	1,692
8 UNIV OF TEXAS AT AUSTIN	1,503	1,180	1,081	448	321	265
9 UNIVERSITY OF UTAH	1,322	2,107	1,911	1,304	1,910	526
10 FLORIDA STATE UNIVERSITY	1,268	394I	387	81	254I	239I
TOTAL 1ST 10 INSTS.	26,058	21,724	20,432	20,515	17,322	15,480
11 US NAVAL POSTGRAD SCHOOL	1,213E	439E	738	1,213E	439E	738E
12 UNIVERSITY OF CONNECTICUT	975	613	701	435	271	520
13 UNIV OF PENNSYLVANIA	940	808	0	936	735	0
14 UNIVERSITY OF MICHIGAN	911	980	882	464	265	298
15 GEORGIA INSTITUTE OF TECH	784	418	459	421	205	229
16 RUTGERS THE STATE UNIV	718	470	194	406	308	156
17 UNIVERSITY OF FLORIDA	709	584	403	0	0	0
18 NEW YORK UNIVERSITY	690	650	409	680	645	404
19 UNIVERSITY OF COLORADO	603	659	600	395	221	364
20 UNIVERSITY OF DAYTON	595	413	592	519	396	341
TOTAL 1ST 20 INSTS.	34,196	27,758	25,210	26,042	20,805	18,330
21 U OF CAL LOS ANGELES	579	658	1,137	309	247	582
22 OHIO STATE UNIVERSITY	574	167	298	328	185	295
23 UNIVERSITY OF GEORGIA	550	520	295	419	502	56
24 CORNELL UNIVERSITY	429	209	439	379	208	411
25 SYRACUSE UNIVERSITY	410	646	597	380	619	510
26 COLUMBIA UNIV MAIN DIV	342	0	0	277	0	0
27 UNIVERSITY OF CHICAGO	337	349	528	329	348	528
28 UNIV OF WISCONSIN-MADISON	330	364	418	276	217	282
29 UNIV OF MASS AT AMHERST	329	305	188	269	299	185
30 U OF TEX M D ANDERSON HOS	328	255	244	12	12	20
TOTAL 1ST 30 INSTS.	38,404	31,251	29,354	28,920	23,242	21,168
31 UNIVERSITY OF WASHINGTON	326	55	49	243	0	0
32 UNIV ALABAMA BIRMINGHAM	296	358	0	296	358	0
33 PRINCETON UNIVERSITY	292	274	0	292	257	0
34 U OF CAL SANTA BARBARA	278	653	548	186	361	288
35 UNIV OF NC AT CHAPEL HILL	253	209	95	253	209	95
36 UNIV OKLAHOMA	233	275	361	165	328	344
37 PURDUE UNIV ALL CAMPUSES	232	324	422	200	285	354
38 U OF CAL SAN DIEGO	229	184	138	229	184	138
39 BROWN UNIVERSITY	193	257	240	193	257	240
40 UNIVERSITY OF ALASKA	188	156	0	53	116	0
TOTAL 1ST 40 INSTS.	40,924	34,070	31,204	31,010	25,597	22,824
41 HARVARD UNIVERSITY	155	166	75	35	0	0
42 SUNY STONY BROOK	139	87	295	91	32	55
43 EAST TEXAS STATE UNIV	136	126	0	0	0	0
44 UNIVERSITY OF HAWAII	132	152	0	132	152	0
45 RENSSELAER POLY INST	131E	117E	133	131E	117E	133I
46 UNIVERSITY OF VIRGINIA	118	219	169	100	171	142
47 UTICA COL OF SYRACUSE U	112	53	0	112	53	0
48 NEW YORK INST TECH	108	87	57	0	0	0
49 PENNSYLVANIA STATE UNIV	107	118	53	94	109	42
50 U OF CAL BERKELEY	102	51	229	0	0	169
TOTAL 1ST 50 INSTS.	42,166	35,232	32,215	31,705	26,231	23,165

SEE FOOTNOTES AT END OF TABLE.

TABLE B-30.
CONTINUED

TOTAL AND FEDERALLY FINANCED
COMPUTER SCIENCE R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL COMPUTER SCIENCE EXPENDITURES			FEDERALLY FINANCED COMPUTER SCIENCE EXPENDITURES		
	1975	1974	1973	1975	1974	1973
51 US AIR FORCE ACADEMY	99	148	69	99	148	69
52 DUKE UNIVERSITY	99	103	160	99	103	160
53 UNIVERSITY OF DENVER	97	88	83	65	66	74
54 RICE UNIVERSITY	97	87	93	97	87	93
55 NORTHWESTERN UNIVERSITY	89	94	57	89	53	56
56 N J INST OF TECHNOLOGY	88	4	7	66	0	0
57 SUNY BUFFALO	88	541	220	82	530	200
58 KANSAS ST UNIVERSITY	87	15	159	76	10	132
59 US NAVAL ACADEMY	86	0	1	86	0	1
60 N C STATE UNIV AT RALEIGH	80	69	644	55	50	514
TOTAL 1ST 60 INSTS.	43,076	36,557	33,708	32,519	27,278	24,264
61 UNIVERSITY OF ROCHESTER	80	0	0	68	0	0
62 INST TEXTILE TECHNOLOGY	80	80	80	0	0	0
63 COLORADO STATE UNIVERSITY	78	28	0	17	31	0
64 SUNY COLLEGE BROCKPORT	77	81	67	37	49	40
65 FAIRFIELD UNIVERSITY	77	90	116	0	0	0
66 YALE UNIVERSITY	77	34	74	57	33	58
67 JACKSON STATE COLLEGE	75	5	0	75	5	0
68 MICHIGAN STATE UNIVERSITY	69	54	73	26	25	63
69 ALABAMA A & M UNIV	68	0	0	39E	0	0
70 UNIVERSITY OF PITTSBURGH	59	53	26	59	53	25
TOTAL 1ST 70 INSTS.	43,816	36,778	34,144	32,897	27,474	24,450
71 WASHINGTON STATE UNIV	59	227	224	51	32	66
72 UNIV OF STHRN MISSISSIPPI	58	0	0	58	0	0
73 US MILITARY ACADEMY	55	31	0	55	31	0
74 UNIVERSITY OF MINNESOTA	52	57	43	49	45	40
75 LEHIGH UNIVERSITY	51	54	284	0	0	238
76 S U N Y SYSTEM OFFICE	49I	45E	40	37I	33E	29I
77 UNIVERSITY OF IOWA	49	27	102	48	27	102
78 SOUTHERN METHODIST UNIV	47	256	1	47	238	1
79 MISSISSIPPI STATE UNIV	43	63	63	0	0	0
80 CASE WESTERN RESERVE UNIV	42	29	35	30	26	35
TOTAL 1ST 80 INSTS.	44,321	37,367	34,936	33,272	27,908	24,961
81 UNIVERSITY OF ARIZONA	42	42	34	40	39	28
82 VIRGINIA POLYTECHNIC INST	40	8	6	0	0	0
83 LOMA LINDA UNIVERSITY	39	26	19	22	13	19
84 U OF WIS MILWAUKEE	38	0	0	0	0	0
85 INSTITUTE PAPER CHEMISTRY	37	166	10	8	0	0
86 UNIV OF WIS WHITEWATER	36	16	2	0	0	0
87 SUNY ALBANY	33	0	0	33	0	0
88 U OF CAL IRVINE	33	132	33	33	132	33
89 XAVIER UNIVERSITY	31	0	0	16	0	0
90 WESTERN WASHINGTON ST COL	31	0	0	13	0	0
TOTAL 1ST 90 INSTS.	44,681	37,942	35,040	33,437	28,092	25,041
91 OLD DOMINION UNIVERSITY	30	0	0	30	0	0
92 BELOIT COLLEGE	27	0	0	0	0	0
93 UTAH STATE UNIVERSITY	27	42	26	0	4	0
94 CUNY QUEENS COLLEGE	27	0	7	27	0	5I
95 UNIV OF SOUTH FLORIDA	26	7	4	0	4	2
96 CITY COLLEGE OF NEW YORK	25	22I	20	25	16I	14I
97 ILLINOIS INST OF TECH	23	0	4	23	0	3
98 SUNY BINGHAMTON	20	0	9	0	0	7I
99 MACALESTER COLLEGE	19	11	7	0	0	7
100 U OF CAL DAVIS	19	79	100	0	17	100
TOTAL 1ST 100 INSTS.	44,924	38,103	35,217	33,542	28,133	25,179
TOTAL ALL OTHER INSTS.	398	1,029	2,521	206	528	1,751

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-31.

TOTAL PHYSICAL SCIENCE R&D EXPENDITURES
IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER
OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS				
	PHYSICAL SCIENCES 1975	1974	TOTAL 1973	PHYSICAL SCIENCES TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	OTHER
UNITED STATES TOTAL	350,340	333,359	330,437	350,340	26,610	121,337	173,290	29,103
1 MASS INST OF TECHNOLOGY	22,572	20,671	21,084	22,572	1,569	3,740	17,263	0
2 U OF CAL BERKELEY	11,777	9,934	9,545	11,777	1,264	2,674	1,461	6,378
3 STANFORD UNIVERSITY	10,641	9,071	8,524	10,641	0	1,664	8,977	0
4 UNIV OF WISCONSIN-MADISON	10,345	9,593	10,142	10,345	619	5,033	3,792	901
5 U OF CAL SAN DIEGO	9,929	9,682	9,731	9,929	0	2,904	5,872	1,153
6 CORNELL UNIVERSITY	9,892	9,736	9,742	9,892	994	2,548	5,690	660
7 UNIVERSITY OF CHICAGO	9,226	9,007	9,070	9,226	285	2,596	5,183	1,164
8 HARVARD UNIVERSITY	9,127	8,886	8,501	9,127	1,704	2,850	4,573	0
9 CALIFORNIA INST OF TECH	9,108	7,908	7,185	9,108	1,797	3,234	4,077	0
10 UNIVERSITY OF COLORADO	8,725	8,102	7,663	8,725	1,973	1,211	1,300	4,241
TOTAL 1ST 10 INSTS.	111,344	103,271	101,187	111,344	10,205	28,454	58,188	14,497
11 UNIV OF TEXAS AT AUSTIN	8,330	7,076	6,629	8,330	2,856	1,886	3,608	0
12 UNIVERSITY OF ARIZONA	7,962	8,491	7,537	7,962	2,716	1,039	4,207	0
13 UNIV OF MD COLLEGE PARK	7,205	5,930	6,692	7,205	0	1,540	5,665	0
14 PRINCETON UNIVERSITY	6,471	6,185	6,548	6,471	1,665	1,494	3,312	0
15 UNIV ILLINOIS URBANA	6,410	4,774	4,834	6,410	422	1,960	4,028	0
16 CARNEGIE-MELLON UNIV	5,605	5,852	6,450	5,605	0	3,729	1,876	0
17 U OF CAL LOS ANGELES	5,222	4,421	4,447	5,222	112	2,106	3,003	1
18 UNIVERSITY OF ROCHESTER	4,921	4,831	4,428	4,921	0	1,292	3,629	0
19 YALE UNIVERSITY	4,829	5,170	4,741	4,829	194	1,653	2,982	0
20 UNIV OF PENNSYLVANIA	4,465	3,999	4,021	4,465	13	775	2,986	691
TOTAL 1ST 20 INSTS.	172,764	160,000	157,522	172,764	17,885	46,208	93,484	15,189
21 UNIVERSITY OF WASHINGTON	4,227	3,864	4,132	4,227	142	826	2,603	656
22 TEXAS A & M UNIVERSITY	4,221	3,936	3,460	4,221	0	2,153	251	1,817
23 UNIVERSITY OF MINNESOTA	4,175	4,278	3,907	4,175	0	1,256	2,919	0
24 INDIANA UNIV-BLOOMINGTON	3,752	4,712	3,546	3,752	30	1,403	2,319	0
25 COLUMBIA UNIV MAIN DIV	3,551	3,389	4,525	3,551	115	2,285	1,151	0
26 UNIVERSITY OF MICHIGAN	3,419	3,213	3,159	3,419	416	826	2,177	0
27 UNIVERSITY OF PITTSBURGH	3,394	2,846	2,936	3,394	0	1,120	2,274	0
28 PURDUE UNIV ALL CAMPUSES	3,270	3,217	3,142	3,270	0	1,818	1,452	0
29 PENNSYLVANIA STATE UNIV	3,241	3,021	3,269	3,241	14	1,155	419	1,656
30 UNIVERSITY OF IOWA	3,237	3,410	3,527	3,237	0	256	2,981	0
TOTAL 1ST 30 INSTS.	209,251	194,186	193,125	209,251	18,597	59,108	114,030	19,318
31 RUTGERS THE STATE UNIV	3,213	3,833	2,874	3,213	0	710	2,500	3
32 GEORGIA INSTITUTE OF TECH	3,075	2,992	2,568	3,075	0	990	2,065	0
33 MICHIGAN STATE UNIVERSITY	3,073	3,048	2,929	3,073	35	952E	2,065	21
34 U OF CAL SANTA CRUZ	3,058E	2,844	2,524	3,058E	1,397	15	-	1,644E
35 UNIVERSITY OF HAWAII	3,015	2,939	3,109	3,015	2,025	455	535	0
36 RICE UNIVERSITY	3,003	3,230	2,747	3,003	1,113	1,079	811	0
37 U OF CAL IRVINE	2,600	2,227	1,831	2,600	0	856	1,725	19
38 UNIVERSITY OF NOTRE DAME	2,549	2,394	2,342	2,549	0	1,597	952	0
39 UNIVERSITY OF ALASKA	2,545	1,900	2,041	2,545	45	14	1,194	1,312
40 FLORIDA STATE UNIVERSITY	2,519	3,113	3,359	2,519	0	884	1,148	487
TOTAL 1ST 40 INSTS.	237,901	225,936	220,250	237,901	23,192	66,658	125,047	22,804
41 OHIO STATE UNIVERSITY	2,478	2,272	2,144	2,478	20	1,599	859	0
42 CASE WESTERN RESERVE UNIV	2,458	2,327	2,246	2,458	126	1,269	1,063	0
43 JOHNS HOPKINS UNIVERSITY	2,407	2,409	2,224	2,407	0	1,094	1,313	0
44 UNIV OF MASS AT AMHERST	2,326	2,724	2,013	2,326	582	1,162	582	0
45 NORTHWESTERN UNIVERSITY	2,172	2,506	2,258	2,172	52	1,267	803	0
46 UNIVERSITY OF UTAH	2,154	3,044	3,010	2,154	0	1,394	603	157
47 SUNY STONY BROOK	2,098	2,171	2,068	2,098	390	73	1,236	407
48 LA ST U BATON ROUGE	1,957	2,132	1,807E	1,957	0	753	1,204	0
49 NEW YORK UNIVERSITY	1,922	2,013	2,296	1,922	0	436	1,487	0
50 UNIVERSITY OF VIRGINIA	1,843	1,680	1,823	1,843	94	881	864	0
TOTAL 1ST 50 INSTS.	259,717	246,777	241,097	259,717	24,360	78,704	135,163	23,388

See FOOTNOTES AT END OF TABLE.

TABLE B-31.
CONTINUED

TOTAL PHYSICAL SCIENCE R&D EXPENDITURES
IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER
OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	PHYSICAL SCIENCES 1975	PHYSICAL SCIENCES 1974	TOTAL 1973	PHYSICAL SCIENCES TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	OTHER
51 DUKE UNIVERSITY	1,740	1,676	2,141	1,740	0	510	1,230	0
52 U OF CAL SANTA BARBARA	1,668	1,423	1,618	1,668	0	607	1,024	37
53 IOWA ST U OF SCI & TECH	1,655	1,136	1,195	1,655	0	557	1,098	0
54 BROWN UNIVERSITY	1,631	1,527	1,571	1,631	0	556	1,075	0
55 UNIVERSITY OF WYOMING	1,570	1,156	1,568	1,570	0	281	1,289	0
56 UNIV OF NC AT CHAPEL HILL	1,499	1,284	1,007	1,499	0	1,206	293	0
57 UNIVERSITY OF OREGON	1,480	1,333	1,401	1,480	10	602	610	258
58 ROCKEFELLER UNIVERSITY	1,450	1,492	1,333	1,450	0	580	850	0
59 UNIVERSITY OF DAYTON	1,428	1,848	1,433	1,428	0	238	1,190	0
60 WASHINGTON UNIV ST LOUIS	1,358	1,371	1,281	1,358	0	368	990	0
TOTAL 1ST 60 INSTS.	275,176	261,201	256,245	275,176	24,390	82,289	144,834	23,663
61 RENSSELAER POLY INST	1,344E	1,199E	1,283E	1,344I	0	1,014I	330I	0
62 BRANDEIS UNIVERSITY	1,303	1,482	1,264	1,303	0	651	652	0
63 UNIVERSITY OF HOUSTON	1,253	1,006	804	1,253	0	574	657	2
64 TEMPLE UNIVERSITY	1,214	492	418	1,214	0	615	287	612
65 SUNY ALBANY	1,182	876	540	1,182	406	395	379	0
66 UNIV OF STHRN CALIFORNIA	1,166	751	797	1,166	0	727	439	0
67 UNIVERSITY OF DENVER	1,132	1,229	1,240	1,132	0	273	859	0
68 UNIV OF NEW HAMPSHIRE	1,124	849	834	1,124	527	100	297	194
69 WAYNE STATE UNIVERSITY	1,117	1,016	868	1,117	0	892	127	98
70 YESHIVA UNIVERSITY	1,102	989	1,174	1,102	0	290	812	0
TOTAL 1ST 70 INSTS.	287,093	271,092	265,473	287,093	25,325	87,526	149,675	24,569
71 U OF CAL RIVERSIDE	1,056	1,431	1,409	1,056	0	538	518	0
72 U OF CAL DAVIS	1,037	1,188	1,085	1,037	0	461	576	0
73 ARIZONA STATE UNIVERSITY	987	875	857	987	0	599	388	0
74 U TENNESSEE KNOXVILLE	978	716	672	978	0	488	490	0
75 COLORADO STATE UNIVERSITY	955	756	511	955	0	667	288	0
76 SYRACUSE UNIVERSITY	941	849	2,403E	941	0	197	744	0
77 SAN DIEGO STATE UNIV	917	252	316	917	33	175	36	673
78 UNIVERSITY OF DELAWARE	915	906	927	915	0	632	283	0
79 OREGON STATE UNIVERSITY	891	821	809	891	0	784	107	0
80 NORTHEASTERN UNIVERSITY	891	880	815	891	0	255	636	0
TOTAL 1ST 80 INSTS.	296,661	279,766	275,479	296,661	25,358	92,522	153,739	25,242
81 UNIV OF MISSOURI ROLLA	890	1,014	934	890	0	98	792	0
82 UNIVERSITY OF FLORIDA	884	1,538	1,400	884	0	569	315	0
83 UNIV OF NEBRASKA - LNCLN	860	490	676	860	1	454	405	0
84 VANDERBILT UNIVERSITY	829	748	780	829	0	178	651	0
85 BRIGHAM YOUNG UNIVERSITY	829E	705	634E	829E	12I	557E	260I	0
86 CITY COLLEGE OF NEW YORK	826	206I	207I	826	0	241	585	0
87 BOSTON COLLEGE	802	684	646E	802	0	295	452	55
88 CATHOLIC UNIV OF AMERICA	798	729	725	798	0	258	540	0
89 U OF TEX M D ANDERSON HOS	782	631	1,045	782	0	0	782	0
90 UNIVERSITY OF CONNECTICUT	779	462	574	779	0	343	436	0
TOTAL 1ST 90 INSTS.	304,940	286,971	283,300	304,940	25,371	95,315	158,957	25,297
91 WASHINGTON STATE UNIV	778	1,270	906	778	413	230	135	0
92 SUNY COL OF ENV SCI & FOR	758	434	1,067	758	0	758	0	0
93 UNIVERSITY OF GEORGIA	754	716	2,525	754	0	694	60	0
94 OKLAHOMA STATE UNIVERSITY	741	468	344	741	0	367	374	0
95 BOSTON UNIVERSITY	740	551	345	740	52	605	83	0
96 UNIVERSITY OF KANSAS	719	1,539	1,171	719	7	453	258	1
97 ROCHESTER INST TECHNOLOGY	719	819	76	719	0	0	85	634
98 SUNY BUFFALO	708	771	671	708	0	630	78	0
99 LEHIGH UNIVERSITY	694	677	602	694	0	90	149	455
100 U OF WIS MILWAUKEE	690	603	479	690	0	346	344	0
TOTAL 1ST 100 INSTS.	312,241	294,839	291,888	312,241	25,843	99,468	160,523	26,387
TOTAL ALL OTHER INSTS.	38,099	38,520	38,549	38,099	767	21,849	12,767	2,716

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-32.

TOTAL AND FEDERALLY FINANCED
PHYSICS R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL PHYSICS EXPENDITURES				FEDERALLY FINANCED PHYSICS EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	173,490	169,229	167,804	157,780	149,879	146,515	146,224	136,541
1 MASS INST OF TECHNOLOGY	17,263	16,369	15,804	16,803	15,953	15,246	15,365	16,156
2 STANFORD UNIVERSITY	8,977	8,257	6,831	6,673	8,504	8,000	6,673	6,185
3 U OF CAL SAN DIEGO	5,672	5,363	5,344	3,996	5,846	5,341	5,308	3,982
4 CORNELL UNIVERSITY	5,690	5,631	5,514	5,085	5,140	5,162	4,662	4,460
5 UNIV OF MD COLLEGE PARK	5,665	4,661	5,098	4,130	5,378	4,495	5,030	3,751
6 UNIVERSITY OF CHICAGO	5,183	4,707	4,264	4,690	4,953	4,301	4,007	4,595
7 HARVARD UNIVERSITY	4,573	4,583	4,315	4,777	4,149	4,411	4,154	4,138
8 UNIVERSITY OF ARIZONA	4,207	4,029	4,279	3,713	3,429	3,670	3,631	2,934
9 CALIFORNIA INST OF TECH	4,077	4,093	3,945	4,007	3,742	3,872	3,784	4,701
10 UNIV ILLINOIS URBANA	4,028	2,490	2,667	2,057	2,456	2,239	2,059	2,219
TOTAL 1ST 10 INSTS.	65,535	60,804	58,081	57,391	59,530	56,837	54,673	53,121
11 UNIV OF WISCONSIN-MADISON	3,792	3,821	3,946	3,859	2,471	2,264	2,422	2,247
12 UNIVERSITY OF ROCHESTER	3,629	3,357	3,335	3,056	3,051	2,820	2,856	2,716
13 UNIV OF TEXAS AT AUSTIN	3,608	3,073	3,424	2,137	2,620	2,287	1,792	1,536
14 PRINCETON UNIVERSITY	3,312	3,064	3,160	3,133	2,785	2,739	2,743	2,721
15 U OF CAL LOS ANGELES	3,003	2,273	2,221	2,512	2,920	2,183	2,182	2,454
16 UNIV OF PENNSYLVANIA	2,986	2,079	2,446	3,046	2,820	2,513	2,407	2,844
17 YALE UNIVERSITY	2,982	3,381	3,063	3,059	2,922	3,247	2,988	3,041
18 UNIVERSITY OF IOWA	2,981	3,147	3,068	2,810	2,839	3,067	3,304	2,431
19 UNIVERSITY OF MINNESOTA	2,919	3,250	3,178	3,145	2,823	3,077	3,094	3,003
20 UNIVERSITY OF WASHINGTON	2,603	2,484	2,624	2,250	2,576	2,478	2,620	2,236
TOTAL 1ST 20 INSTS.	97,350	90,842	88,846	86,380	87,357	83,512	81,082	78,350
21 RUTGERS THE STATE UNIV	2,500	2,920	2,214	2,012	1,444	1,587	1,328	1,660
22 INDIANA UNIV-BLOOMINGTON	2,319	1,147	1,822	1,271	2,266	1,102	1,601	1,227
23 UNIVERSITY OF PITTSBURGH	2,274	2,048	2,219	2,074	2,150	1,959	2,177	2,003
24 UNIVERSITY OF MICHIGAN	2,177	2,142	2,038	2,015	1,916	1,925	1,819	1,881
25 GEORGIA INSTITUTE OF TECH	2,085	1,621	1,528	1,265	1,120	809	762	562
26 MICHIGAN STATE UNIVERSITY	2,065	2,008	1,976	1,661	2,044	1,980	1,858	1,647
27 CARNEGIE-MELLON UNIV	1,876	1,690	1,607	2,018	1,449	1,246	1,335	1,623
28 U OF CAL IRVINE	1,725	565	692	491	1,703	531	683	476
29 NEW YORK UNIVERSITY	1,487	1,629	1,790	2,485	1,456	1,613	1,738	2,456
30 U OF CAL BERKELEY	1,461	1,351	1,287	1,02[illegible]	1,401	1,271	1,150	915
TOTAL 1ST 30 INSTS.	117,319	107,993	106,019	103,295	104,306	97,535	95,533	92,800
31 PURDUE UNIV ALL CAMPUSES	1,452	1,371	1,229	1,360	1,368	1,289	1,160	1,323
32 SUNY STONY BROOK	1,338	1,171	1,254	1,067	1,296	1,096	1,192	1,036
33 JOHNS HOPKINS UNIVERSITY	1,315	1,232	1,194	1,593	1,278	1,011	1,176	1,477
34 UNIVERSITY OF COLORADO	1,300	6,525	5,475	1,811	1,141	5,145	5,026	1,520
35 UNIVERSITY OF WYOMING	1,289	963	627	488	1,062	962	625	488
36 DUKE UNIVERSITY	1,230	1,307	1,576	1,066	1,100	1,166	1,564	1,053
37 LA ST U BATON ROUGE	1,204	1,229	1,047E	1,239	503	541	400[illegible]	711
38 UNIVERSITY OF ALASKA	1,194	900	1,073	1,372	823	136	800	972
39 UNIVERSITY OF DAYTON	1,190	1,472	1,036	873	1,160	1,413	1,009	872
40 COLUMBIA UNIV MAIN DIV	1,151	1,799	2,625	2,063	1,031	1,706	2,521	1,895
TOTAL 1ST 40 INSTS.	129,982	125,962	123,155	116,227	115,088	112,000	111,006	104,147
41 FLORIDA STATE UNIVERSITY	1,148	1,316	1,266	1,055	758	1,162	1,122	980
42 IOWA ST U OF SCI & TECH	1,098	515	527	300	166	105	66	37
43 CASE WESTERN RESERVE UNIV	1,083	861	880	1,083	1,083	859	877	827
44 BROWN UNIVERSITY	1,075	1,044	1,005	1,601	1,068	1,033	984	1,056
45 U OF CAL SANTA BARBARA	1,024	741	832	687	1,001	732	819	683
46 WASHINGTON UNIV ST LOUIS	990	1,034	987	988	986	1,017	955	983
47 UNIVERSITY OF NOTRE DAME	952	908	802	829	872	895	801	829
48 UNIVERSITY OF VIRGINIA	864	757	700	573	698	587	573	470
49 OHIO STATE UNIVERSITY	859	764	791	588	839	762	788	580
50 UNIVERSITY OF DENVER	859	1,174	1,236	1,045	721	876	1,094	914
TOTAL 1ST 50 INSTS.	139,934	135,074	132,161	124,976	123,280	120,028	119,085	111,506

SEE FOOTNOTES AT END OF TABLE.

TABLE B-32.
CONTINUED

TOTAL AND FEDERALLY FINANCED
PHYSICS R&D EXPENDITURES IN UNIVERSITIES
AND COLLEGES IN DESCENDING ORDER OF AMOUNTS
BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL PHYSICS EXPENDITURES				FEDERALLY FINANCED PHYSICS EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 ROCKEFELLER UNIVERSITY	850	827	734	695	356	338	299	255
52 YESHIVA UNIVERSITY	812	650	783	8.5E	813	650	783	825E
53 RICE UNIVERSITY	811	857	767	877	800	821	763	869
54 NORTHWESTERN UNIVERSITY	803	627	554	570	748	591	476	277
55 UNIV OF MISSOURI ROLLA	792	892	746	600	317	369	315	542
56 U OF TEX M D ANDERSON HOS	782	651	580	543	469	330	299	253
57 SYRACUSE UNIVERSITY	744	629	2,135c	1,075E	744	629	1,950E	1,050E
58 UNIVERSITY OF HOUSTON	657	581	409	346	641	564	407	346
59 BRANDEIS UNIVERSITY	652	745	596	545E	645	745	578	535E
60 VANDERBILT UNIVERSITY	651	503	446	512	572	406	391	448
TOTAL 1ST 60 INSTS.	147,488	141,596	139,911	131,364	129,384	125,471	125,348	116,906
61 NORTHEASTERN UNIVERSITY	636	656	567	479	470	491	380	326
62 UNIVERSITY OF OREGON	610	636	553	615	605	619	546	573
63 UNIVERSITY OF UTAH	603	739	1,326	812	599	456	968	722
64 CITY COLLEGE OF NEW YORK	585	1041	981	931	475	931	881	811
65 UNIV OF MASS AT AMHERST	582	709	586	480	528	553	572	453
66 U OF CAL DAVIS	576	724	764	716	425	589	594	626
67 CATHOLIC UNIV OF AMERICA	540	485	525	421	472	412	448	359
68 UNIVERSITY OF HAWAII	535	564	445	181	535	564	378	181
69 U OF CAL RIVERSIDE	518	592	654	541	495	578	641	525
70 STEVENS INSTITUTE OF TECH	513	599	548	540	460	427	520	455
TOTAL 1ST 70 INSTS.	153,186	147,804	145,977	136,444	134,448	130,255	130,483	121,207
71 U TENNESSEE KNOXVILLE	490	406	434	323	471	385	421	323
72 BOSTON COLLEGE	452	356	228I	207	340	248	209I	190
73 EMMANUEL COLLEGE	446	409	377	337	446	409	377	337
74 UNIV OF STHRN CALIFORNIA	439	323	297	387	432	322	293	376
75 UNIVERSITY OF CONNECTICUT	436	297	323	246	234	170	185	135
76 PENNSYLVANIA STATE UNIV	419	369	445	408	410	367	305	271
77 UNIV OF NEBRASKA - LNCLN	405	345	259	226	386	285	215	191
78 ARIZONA STATE UNIVERSITY	386	306	244	254	354	235	199	202
79 SUNY ALBANY	370	321	186	469	350	283	166	146
80 OKLAHOMA STATE UNIVERSITY	374	290	221	178	206	194	134	81
TOTAL 1ST 80 INSTS.	157,414	151,216	148,991	139,179	138,083	133,453	132,987	123,459
81 US NAVAL POSTGRAD SCHOOL	367	283	337	285	367	283	337	285
82 TUFTS UNIVERSITY	345	343	345	300	344	317	340	289
83 U OF WIS MILWAUKEE	344	315	220	172	156	128	81	45
84 UNIV ALABAMA HUNTSVILLE	340	298	323	398	318	293	323	390
85 VIRGINIA POLYTECHNIC INST	339	444	330	492	100	210	105	71
86 RENSSELAER POLY INST	330E	294E	315E	275	330E	294E	315E	275
87 OLD DOMINION UNIVERSITY	326	543	252	137	326	543	123	135
88 UNIVERSITY OF FLORIDA	315	890	824	346	310	690	609	339
89 UNIV OF NEW HAMPSHIRE	297	340	265	246	248	292	242	227
90 ILLINOIS INST OF TECH	296	322	368	297	287	292	325	274
TOTAL 1ST 90 INSTS.	160,713	155,266	152,950	142,027	140,871	136,495	135,787	125,789
91 UNIV OF NC AT CHAPEL HILL	293	267	360	351	274	267	298	351
92 KENT STATE UNIVERSITY	292	308	279	211	157	169	149	99
93 COLORADO STATE UNIVERSITY	288	176	111	47	285	167	102	26
94 TEMPLE UNIVERSITY	287	293	227	321	235	248	162	450
95 UNIVERSITY OF DELAWARE	283	299	313	321	169	187	248	252
96 UNIVERSITY OF MIAMI	274	648	603	570	204	443	410	262
97 ALABAMA A & M UNIV	272	80	67E	40E	134	62	50E	27E
98 BRIGHAM YOUNG UNIVERSITY	260E	221	162	165	66E	71	175E	159
99 UNIVERSITY OF KANSAS	258	460	0	0	224	433	0	0
100 NORTHERN ILLINOIS UNIV	252	157	6	72	251	157	6	72
TOTAL 1ST 100 INSTS.	163,472	158,181	154,837	144,119	142,870	138,699	137,587	127,487
TOTAL ALL OTHER INSTS.	9,818	11,044	13,167	12,665	7,009	7,614	8,627	9,054

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-33.

TOTAL AND FEDERALLY FINANCED CHEMISTRY R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL CHEMISTRY EXPENDITURES				FEDERALLY FINANCED CHEMISTRY EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
UNITED STATES TOTAL	121,337	116,099	114,136	106,797	92,721	88,692	86,862	82,391
1 UNIV OF WISCONSIN-MADISON	5,033	4,494	4,460	4,076	2,536	2,249	2,410	2,079
2 MASS INST OF TECHNOLOGY	3,740	2,870	3,023	2,894	3,436	2,633	2,852	2,696
3 CARNEGIE-MELLON UNIV	3,729	4,164	4,042	1,140	1,294	1,365	1,565	730
4 CALIFORNIA INST OF TECH	3,234	2,959	2,307	2,025	2,722	2,324	2,075	1,803
5 U OF CAL SAN DIEGO	2,904	2,582	2,561	2,271	2,671	2,412	2,423	2,185
6 HARVARD UNIVERSITY	2,850	2,519	2,241	2,796	2,610	2,318	2,044	2,289
7 U OF CAL BERKELEY	2,674	2,607	2,041	1,776	2,504	2,297	1,791	1,563
8 UNIVERSITY OF CHICAGO	2,596	2,689	3,396	3,147	2,362	2,556	3,134	2,955
9 CORNELL UNIVERSITY	2,548	2,476	2,515	2,365	2,399	2,336	2,234	2,235
10 COLUMBIA UNIV MAIN DIV	2,285	1,953	1,663	1,762	1,993	1,751	1,551	1,529
TOTAL 1ST 10 INSTS.	31,593	28,919	29,050	24,262	24,527	22,243	22,079	20,064
11 TEXAS A & M UNIVERSITY	2,153	1,663	1,834	1,984	1,317	1,272	1,105	1,036
12 U OF CAL LOS ANGELES	2,106	2,022	2,073	1,796	1,947	1,883	1,932	1,627
13 UNIV ILLINOIS URBANA	1,960	1,967	1,951	2,453	1,722	1,756	1,495	2,039
14 UNIV OF TEXAS AT AUSTIN	1,866	1,556	1,030	1,351	758	650	745	710
15 PURDUE UNIV ALL CAMPUSES	1,818	1,846	1,913	1,561	1,578	1,662	1,697	1,415
16 STANFORD UNIVERSITY	1,664	1,414	1,693	1,627	1,626	1,345	1,599	1,509
17 YALE UNIVERSITY	1,653	1,670	1,529	1,946	1,558	1,579	1,369	1,834
18 OHIO STATE UNIVERSITY	1,599	1,472	1,213	1,172	1,377	1,393	1,150	1,088
19 UNIVERSITY OF NOTRE DAME	1,597	1,486	1,540	347	1,531	1,423	1,472	338
20 UNIV OF MD COLLEGE PARK	1,540	1,269	1,594	1,276	1,242	1,005	1,222	1,107
TOTAL 1ST 20 INSTS.	49,549	45,306	45,420	39,829	39,184	36,111	35,965	32,767
21 PRINCETON UNIVERSITY	1,494	1,379	1,440	1,147	1,050	922	946	734
22 INDIANA UNIV-BLOOMINGTON	1,403	1,249	1,667	1,523	1,240	1,361	1,524	1,321
23 UNIVERSITY OF UTAH	1,394	2,036	1,704	874	1,283	1,280	1,539	765
24 UNIVERSITY OF ARIZONA	1,339	1,220	1,079	829	1,087	811	717	529
25 UNIVERSITY OF ROCHESTER	1,292	1,474	1,093	1,042	964	1,095	900	916
26 NORTHWESTERN UNIVERSITY	1,287	1,615	1,511	1,600	1,128	1,528	1,352	1,272
27 UNIVERSITY OF MINNESOTA	1,256	1,028	729	709	1,067	924	671	636
28 CASE WESTERN RESERVE UNIV	1,249	1,069	1,152	1,290	1,040	981	988	957
29 UNIVERSITY OF COLORADO	1,211	1,054	911	966	1,011	780	807	810
30 UNIV OF NC AT CHAPEL HILL	1,206	997	707	565	1,146	987	657	540
TOTAL 1ST 30 INSTS.	62,680	58,733	57,433	50,370	50,200	46,780	46,004	41,247
31 UNIV OF MASS AT AMHERST	1,162	1,306	841	657	846	946	671	533
32 PENNSYLVANIA STATE UNIV	1,155	1,261	1,274	1,182	967	1,077	963	913
33 UNIVERSITY OF PITTSBURGH	1,120	798	714	752	1,017	717	648	624
34 JOHNS HOPKINS UNIVERSITY	1,092	1,177	1,038	1,149	1,001	905	1,005	1,024
35 RICE UNIVERSITY	1,079	1,193	866	726	594	519	260	435
36 RENSSELAER POLY INST	1,014	903	960	849	907	890	961	838
37 GEORGIA INSTITUTE OF TECH	990	1,331	1,040	1,220	551	655	518	692
38 MICHIGAN STATE UNIVERSITY	952	1,021	933	823	873	976	800	771
39 WAYNE STATE UNIVERSITY	892	766	699	709	861	719	500	662
40 FLORIDA STATE UNIVERSITY	884	1,286	1,240	1,033	387	1,043	1,005	877
TOTAL 1ST 40 INSTS.	73,020	69,780	67,046	59,416	56,384	55,293	53,477	48,616
41 UNIVERSITY OF VIRGINIA	881	1,003	837	752	696	732	819	523
42 U OF CAL IRVINE	856	1,029	1,125	1,159	814	1,093	1,093	1,120
43 UNIVERSITY OF MICHIGAN	826	791	730	585	633	646	627	491
44 UNIVERSITY OF WASHINGTON	826	585	652	819	744	522	596	569
45 OREGON STATE UNIVERSITY	784	715	676	3,025	568	527	522	2,008
46 UNIV OF PENNSYLVANIA	775	658	608	701	614	626	740	726
47 SUNY COL OF ENV SCI & FOR	758	434	1,067	993	281	262	342	388
48 LA ST U BATON ROUGE	753	904	560	1,002	514	441	253	603
49 UNIV OF SthRN CALIFORNIA	727	428	500	484	566	392	466	442
50 RUTGERS THE STATE UNIV	710	714	657	1,125	455	422	388	820
TOTAL 1ST 50 INSTS.	80,910	77,601	74,659	69,960	64,472	61,543	59,173	56,286

SEE FOOTNOTES AT END OF TABLE.

TABLE B-33.
CONTINUED

TOTAL AND FEDERALLY FINANCED CHEMISTRY R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL CHEMISTRY EXPENDITURES				FEDERALLY FINANCED CHEMISTRY EXPENDITURES			
	1975	1974	1973	1972	1975	1974	1973	1972
51 UNIVERSITY OF GEORGIA	694	653	1,259	1,246	586	422	441	433
52 COLORADO STATE UNIVERSITY	667	500	400	281	568	409	313	214
53 BRANDEIS UNIVERSITY	651	737	668	665E	612	697	643	655E
54 UNIVERSITY OF DELAWARE	634	607	619	562	565	566	459	378
55 SUNY BUFFALO	630	641	600	659	596	565	582	650
56 U OF CAL SANTA BARBARA	607	500	566	452	566	435	524	404
57 BOSTON UNIVERSITY	605	466	249	245	517	387	181	148
58 UNIVERSITY OF OREGON	602	567	724	967	579	554	709	937
59 ARIZONA STATE UNIVERSITY	599	569	613	577	512	496	515	495
60 ROCKEFELLER UNIVERSITY	580	665	599	623	308	263	218	231
TOTAL 1ST 60 INSTS.	87,183	83,586	80,931	75,341	69,685	65,917	63,739	60,831
61 UNIV OF SOUTH CAROLINA	574	268	197	177E	328	143	164	150E
62 UNIVERSITY OF HOUSTON	574	427	395	436	291	258	220	227
63 UNIVERSITY OF FLORIDA	569	648	576	571	522	487	559	519
64 IOWA ST U OF SCI & TECH	557	648	668	498	176	295	346	311
65 BRIGHAM YOUNG UNIVERSITY	557E	472	453E	412	298E	325	352E	320
66 BROWN UNIVERSITY	556	483	566	833	486	429	535	525
67 CLARKSON COL OF TECH	542	501E	423	508	380	360E	325	426
68 U OF CAL RIVERSIDE	538	859	755	558	514	825	744	532
69 DUKE UNIVERSITY	510	565	565	542	410	298	486	300
70 OHIO DOMINICAN COLLEGE	500E	128I	41	5	0	0	1I	2
TOTAL 1ST 70 INSTS.	92,660	88,327	85,533	79,684	73,090	69,315	67,451	64,143
71 U TENNESSEE KNOXVILLE	488	520	258	159	398	285	206	135
72 U OF CAL DAVIS	481	464	520	509	386	396	452	254
73 UNIVERSITY OF HAWAII	455	357	406	136	437	327	370	103
74 UNIV OF NEBRASKA - LNCLN	454	133	417	344	382	107	260	267
75 UNIVERSITY OF KANSAS	453	1,061E	522	529	370	1,061	453	413
76 NEW YORK UNIVERSITY	436	376	506	538	362	294	455	462
77 UNIV OF NEW ORLEANS	401	411	472E	370	297	346	315E	339
78 TEXAS TECH UNIVERSITY	397	419	436	495	82	127	152	49
79 SUNY ALBANY	395	291	349	364	371	267	320	332
80 KENT STATE UNIVERSITY	387	300	385	334	168	148	217	180
TOTAL 1ST 80 INSTS.	96,987	92,459	89,584	82,259	76,344	72,673	70,451	66,676
81 UNIV OKLAHOMA	384	459	193	87	329	342	147	52
82 WASHINGTON UNIV ST LOUIS	368	389	314	326	338	304	285	302
83 OKLAHOMA STATE UNIVERSITY	367	196	123	209	195	82	90	91
84 INSTITUTE PAPER CHEMISTRY	367	845	583	602	34	0	0	0
85 UNIVERSITY OF MONTANA	365	354	322E	194	281	273	246E	193
86 GEORGETOWN UNIVERSITY	365	480	321	298E	346	384	426	291
87 CUNY BROOKLYN COLLEGE	361	151	141	171	269	131	141	151
88 DARTMOUTH COLLEGE	346	229	274	226	288	194	221E	190
89 U OF WIS MILWAUKEE	346	290	259	304	125	96	75	52
90 UNIVERSITY OF CONNECTICUT	343	165	451	267	176	88	145	152
TOTAL 1ST 90 INSTS.	100,601	95,813	92,438	85,809	78,745	74,449	72,100	68,014
91 MONTANA STATE UNIVERSITY	340	0	358	168	196	0	194	81
92 TEMPLE UNIVERSITY	315	198	191	166	270	167	151	136
93 JACKSON STATE COLLEGE	313	31	40	1	313	31	33	1
94 EMORY UNIVERSITY	312	140	128	287	274	113	105	268
95 VIRGINIA POLYTECHNIC INST	305	301	267	256	147	225	215	222
96 THE UNIVERSITY OF AKRON	304	285	23	40	207	198	6	14
97 BOSTON COLLEGE	295	314	418E	380	149	177	388E	353
98 YESHIVA UNIVERSITY	290	339	391	425E	260	339	391	425E
99 NORTH TEXAS STATE UNIV	289	240	197	190E	51	41	17	140E
100 CALIF STATE UNIV LA	287	546	335	271	265	416	209	231
TOTAL 1ST 100 INSTS.	103,551	98,207	94,706	87,729	80,857	76,154	73,809	69,677
TOTAL ALL OTHER INSTS.	17,686	17,892	19,430	19,068	11,864	12,538	13,053	12,714

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

THE 1972 FIGURES DO NOT INCLUDE DEVELOPMENT.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-34.

TOTAL SOCIAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS				
	SOCIAL SCIENCES TOTAL 1975	1974	1973	SOCIAL SCIENCES TOTAL	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	OTHER
UNITED STATES TOTAL	249,929	239,950	232,185	249,929	56,112	28,694	68,713	96,410
1 UNIVERSITY OF MICHIGAN	14,180	11,815	12,777	14,180	1,298	2,318	8,886	1,680
2 UNIV OF WISCONSIN-MADISON	12,756	12,788	13,063	12,756	2,595	197	5,015	4,949
3 HARVARD UNIVERSITY	7,490	7,820	9,697	7,490	2,928	678	294	3,590
4 U OF CAL BERKELEY	7,281	7,010	7,144	7,281	2,406	2,017	409	2,449
5 MICHIGAN STATE UNIVERSITY	6,473	5,325	5,057	6,473	1,574	185	1,725	2,989
6 FLORIDA STATE UNIVERSITY	5,339	3,043	2,923	5,339	251	104	1,567	3,399
7 STANFORD UNIVERSITY	5,301	5,331	5,775	5,301	377	182	156	4,586
8 PENNSYLVANIA STATE UNIV	5,289	4,823	4,798	5,289	1,022	11	1,462	2,794
9 UNIV ILLINOIS URBANA	5,085	4,489	4,293	5,085	1,633	63	216	3,173
10 UNIVERSITY OF MINNESOTA	4,827	6,111	5,032	4,827	1,233	590	600	2,404
TOTAL 1ST 10 INSTS.	74,021	68,365	70,559	74,021	15,315	6,343	20,350	32,013
11 UNIV OF TEXAS AT AUSTIN	4,731	6,207	4,268	4,731	1,633	434	990	1,674
12 COLUMBIA UNIV MAIN DIV	4,612	3,494	3,324	4,612	863	950	2,403	396
13 INDIANA UNIV NORTHWEST	4,045	4,826	5,082	4,045	1	0	4,041	3
14 RUTGERS THE STATE UNIV	4,025	4,262	3,931	4,025	666	905	1,905	549
15 CORNELL UNIVERSITY	3,983	3,675	4,011	3,983	18	90	647	3,228
16 UNIVERSITY OF OREGON	3,921	3,820	2,796	3,921	377	52	89	3,403
17 OHIO STATE UNIVERSITY	3,909	3,882	4,642	3,909	494	538	189	2,688
18 UNIVERSITY OF CHICAGO	3,836	4,267	4,876	3,836	491	153	1,095	2,097
19 UNIV OF NC AT CHAPEL HILL	3,715	3,334	364	3,715	195	290	1,542	1,688
20 NEW YORK UNIVERSITY	3,280	2,941	2,550	3,280	312	529	296	2,343
TOTAL 1ST 20 INSTS.	114,078	109,073	106,443	114,078	20,565	10,084	33,547	49,882
21 U OF CAL LOS ANGELES	3,252	2,170	3,012	3,252	22	1,826	478	926
22 MASS INST OF TECHNOLOGY	3,219	3,843	4,963	3,219	1,529	652	1,017	41
23 UNIVERSITY OF DENVER	3,038	2,592	1,834	3,038	1,466	125	1,368	79
24 UNIV OF STHRN CALIFORNIA	2,657	2,121	2,041	2,657	286	553	1,813	5
25 COLORADO STATE UNIVERSITY	2,641	1,546	1,588	2,641	966	67	328	1,280
26 UNIVERSITY OF ARIZONA	2,603	2,339	2,476	2,603	441	143	248	1,671
27 IOWA ST U OF SCI & TECH	2,584	2,000	2,443	2,584	1,639	2	820	127
28 PURDUE UNIV ALL CAMPUSES	2,522	1,606	1,971	2,522	1,592	21	478	630
29 TEMPLE UNIVERSITY	2,268	1,523	1,787	2,268	424	42	1,522	280
30 YALE UNIVERSITY	2,256	2,157	2,014	2,256	923	58	59	1,316
TOTAL 1ST 30 INSTS.	141,318	132,172	130,592	141,318	29,852	13,553	41,576	56,337
31 JOHNS HOPKINS UNIVERSITY	2,282	2,165	1,074	2,282	56	640	1,501	85
32 UNIVERSITY OF WASHINGTON	2,214	1,204	984	2,214	187	618	486	923
33 INDIANA UNIV-BLOOMINGTON	2,109	1,739	1,465	2,109	130	628	192	1,159
34 UNIVERSITY OF CONNECTICUT	2,025	1,817	1,645	2,025	324	134	948	619
35 BRANDEIS UNIVERSITY	1,973	1,974	2,014	1,973	162	123	1,632	167
36 UNIV OF PENNSYLVANIA	1,963	3,447	4,063	1,963	624	456	685	198
37 SYRACUSE UNIVERSITY	1,954	1,899	1,929	1,954	253	326	554	821
38 UNIVERSITY OF ALASKA	1,940	2,176	1,730	1,940	316	292	424	912
39 UNIV OF MASS AT AMHERST	1,914	1,657	1,093	1,914	218	1,020	241	442
40 PRINCETON UNIVERSITY	1,904	2,515	2,234	1,904	669	574	643	18
TOTAL 1ST 40 INSTS.	161,593	154,565	148,273	161,593	32,787	18,243	48,886	61,681
41 GEORGE WASHINGTON UNIV	1,903	2,011	2,037	1,903	330	27	901	645
42 OKLAHOMA STATE UNIVERSITY	1,763	1,561	49	1,763	830	0	0	933
43 AMERICAN UNIVERSITY THE	1,654	1,924	1,929	1,654	9	50	0	1,595
44 UNIVERSITY OF GEORGIA	1,613	1,478	5,841	1,613	886	40	254	423
45 UNIVERSITY OF HAWAII	1,484	2,107	1,812	1,482	243	75	368	796
46 UNIV OF MISSOURI COLUMBIA	1,479	1,376	1,002	1,479	401	5	522	551
47 CARNEGIE-MELLON UNIV	1,416	1,242	1,058	1,416	690	669	57	0
48 DUKE UNIVERSITY	1,318	1,197	417	1,318	91	427	207	593
49 U OF CAL DAVIS	1,296	1,922	1,058	1,298	804	234	7	391
50 VIRGINIA POLYTECHNIC INST	1,257	520	315	1,257	718	34	44	461
TOTAL 1ST 50 INSTS.	176,776	168,433	164,191	176,776	37,651	19,827	51,239	68,059

SEE FOOTNOTES AT END OF TABLE.

TABLE B-34.
CONTINUED

TOTAL SOCIAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS				
	SOCIAL SCIENCES TOTAL			SOCIAL SCIENCES TOTAL	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	OTHER
	1975	1974	1973					
51 UNIV OF MAINE ORONO	1,240	867E	817	1,240	355	136	215E	538
52 UNIVERSITY OF MONTANA	1,155	1,161	1,074E	1,155	114	14	726	305
53 NORTHWESTERN UNIVERSITY	1,137	799	681	1,137	177	178	69	713
54 UNIVERSITY OF ARKANSAS	1,086	972	734	1,086	481	1	101	443
55 GEORGIA INSTITUTE OF TECH	1,084	1,182	808	1,084	950	67	67	0
56 UNIV OF KENTUCKY ALL CAM	1,048	1,010I	994	1,048	54	30	866	98
57 UNIVERSITY OF COLORADO	1,045	1,957	2,073	1,045	57	84	368	541
58 BRIGHAM YOUNG UNIVERSITY	1,036E	879	937E	1,036E	163E	109E	178	586
59 SUNY BUFFALO	1,020	1,708	1,265	1,020	13	34	674	299
60 UNIVERSITY OF IOWA	1,019	776	730	1,019	256	101	12	668
TOTAL 1ST 60 INSTS.	187,652	178,943	173,766	187,652	40,251	20,579	54,574	72,248
61 UNIVERSITY OF UTAH	996	1,162	665	996	60	19	229	688
62 UNIV OF MISSISSIPPI	984	769	404	984	182	579	79	144
63 OREGON STATE UNIVERSITY	976	1,080	888	976	817	0	120	39
64 SUNY GRADUATE DIVISION	956	1,508	842	956	0	98	470	388
65 UNIV OF NEBRASKA - LNCLN	954	1,032	766	954	714	1	76	163
66 TRINITY UNIVERSITY	903	873	745	903	3	14	117	771I
67 UNIVERSITY OF FLORIDA	872	991	824	872	705	13	154	0
68 UNIV OF TEX AT ARLINGTON	857	448	611	857	42	0	595	220
69 N C STATE UNIV AT RALEIGH	855	928	945	855	140	12	55	648
70 BROWN UNIVERSITY	845	590	701	845	272	30	399	244
TOTAL 1ST 70 INSTS.	196,850	188,304	180,938	196,850	43,086	21,343	56,868	75,553
71 BOSTON COLLEGE	839	717	1,366E	839	169E	95E	95E	480E
72 CASE WESTERN RESERVE UNIV	813	704	617	813	68	0	352	393
73 WASHINGTON STATE UNIV	804	658	975	804	2	7	406	389
74 UNIVERSITY OF HOUSTON	795	510	546	795	504	261	26	4
75 UNIV OF MD COLLEGE PARK	784	565	830	784	513	39	124	108
76 UNIVERSITY OF MIAMI	780	787	1,188	780	271	333	2	174
77 UNIVERSITY OF IDAHO	775	578	571	775	576	29	144	26
78 MISSISSIPPI STATE UNIV	768	1,035	687	768	611	0	136	21
79 U OF CAL IRVINE	763	559	328	763	0	515	0	248
80 SUNY COLLEGE FREDONIA	756	27	40	756	14	0	50	692
TOTAL 1ST 80 INSTS.	204,727	194,224	188,086	204,727	45,814	22,622	58,203	78,088
81 UNIV OF RHODE ISLAND	749	116	108E	749	177I	80I	198I	294I
82 LSU CTR AGR SCI/RUR DEV	743	704	818E	743	626	0	117	0
83 U OF WIS MILWAUKEE	724	458	395	724	80	40	336	268
84 WAYNE STATE UNIVERSITY	717	448	512	717	28	11	263	415
85 UNIV OF SOUTH CAROLINA	706	702	644	706	88	277	238	103
86 UNIVERSITY OF ROCHESTER	701	742	1,008	701	185	101	63	352
87 UNIV OF ILL CHICAGO CIR	698	79	46	698	72	57	257	312
88 CATHOLIC UNIV OF AMERICA	692	294	138	692	0	400	195	97
89 UNIV OKLAHOMA	688	802	747	688	33	342	163	150
90 NEW MEXICO STATE UNIV	675	1,394	1,502	675	8	20	1	646
TOTAL 1ST 90 INSTS.	211,820	200,045	194,004	211,820	47,111	23,950	60,034	80,725
91 TEXAS A & M UNIVERSITY	661	595	535	661	96	113	83	369
92 U OF CAL SANTA BARBARA	633	342	439	633	16	20	188	409
93 UNIV OF SOUTH FLORIDA	609	325	533	609	32	61	7	509
94 FORDHAM UNIVERSITY	585	490	572	585	7	23	541	14
95 SUNY BINGHAMTON	570	312	591	570	270	46	32	222
96 SOUTHERN METHODIST UNIV	555	83	554	555	29	13	86	427
97 U TENNESSEE KNOXVILLE	541	630	351	541	16	9	2	514
98 NOVA UNIVERSITY	527	544	181	527	0	0	243	284
99 KANSAS ST UNIVERSITY	520	631	610	520	387	9	40	84
100 AUBURN UNIVERSITY	508	516	416	508	508	0	0	0
TOTAL 1ST 100 INSTS.	217,529	204,483	198,254	217,529	48,472	24,244	61,256	83,557
TOTAL ALL OTHER INSTS.	32,400	35,467	33,931	32,400	7,640	4,450	7,457	12,853

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-35.

FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCE
UNITED STATES TOTAL	2,283,979	259,524	284,664	180,506	64,866	1,237,497	61,193	139,785	55,88
1 MASS INST OF TECHNOLOGY	69,599	24,190	19,712	4,944	6,673	11,230	996	1,667	18
2 U OF CAL SAN DIEGO	69,032	2,116	9,041	35,762	425	19,726	572	279	52
3 STANFORD UNIVERSITY	59,640	10,840	10,130	2,406	3,143	17,035	789	4,542	75
4 UNIVERSITY OF WASHINGTON	55,260	3,816	3,957	4,301	529	36,764	641	1,018	4,21
5 COLUMBIA UNIV MAIN DIV	50,852	1,987	3,119	10,229	410	26,816	366	3,013	4,90
6 HARVARD UNIVERSITY	49,067	690	8,317	3,209	570	32,159	929	3,572	22
7 UNIV OF WISCONSIN-MADISON	48,217	1,897	5,799	4,635	1,499	25,806	2,925	6,552	1,10
8 U OF CAL LOS ANGELES	47,326	5,040	4,977	3,251	662	28,806	2,980	1,146	45
9 UNIVERSITY OF MICHIGAN	46,071	7,765	2,956	4,012	992	20,489	2,911	7,544	
10 U OF CAL BERKELEY	46,048	8,365	10,942	1,188	1,114	20,594	1,128	3,157	16
TOTAL 1ST 10 INSTS.	542,912	66,712	79,552	73,943	16,005	247,448	14,237	32,490	12,53
11 JOHNS HOPKINS UNIVERSITY	45,787	746	2,279	2,812	103	37,959	226	1,581	8
12 UNIVERSITY OF CHICAGO	45,096	0	8,681	1,812	946	30,573	710	2,374	
13 UNIVERSITY OF MINNESOTA	41,827	3,194	3,690	551	502	30,066	690	2,639	29
14 CORNELL UNIVERSITY	36,841	5,739	9,114	476	799	16,602	132	1,928	5
15 U OF CAL SAN FRANCISCO	36,450	0	0	0	0	36,450	0	0	
16 YALE UNIVERSITY	35,253	1,339	4,642	737	398	25,493	800	1,846	
17 UNIV OF PENNSYLVANIA	34,762	1,588	4,110	26	1,191	25,848	313	1,686	
18 UNIV ILLINOIS URBANA	32,840	8,492	4,356	2,606	2,853	6,129	1,628	1,675	5,10
19 NEW YORK UNIVERSITY	31,714	940	1,816	224	3,493	22,448	538	1,98	26
20 WASHINGTON UNIV ST LOUIS	27,101	3,844	1,324	24	116	19,781	218	308	1,48
TOTAL 1ST 20 INSTS.	910,591	92,598	119,766	83,211	26,406	500,792	19,492	48,509	19,81
21 UNIVERSITY OF ROCHESTER	26,852	1,154	4,015	84	258	19,273	662	463	9
22 UNIVERSITY OF COLORADO	25,313	1,229	7,591	842	525	13,243	1,016	681	1
23 UNIV OF STHN CALIFORNIA	24,921	6,479	1,094	1,300	111	13,290	372	2,209	
24 UNIV OF NC AT CHAPEL HILL	24,825	0	1,420	1,297	2,399	12,883	386	2,150	4,09
25 MICHIGAN STATE UNIVERSITY	24,257	372	2,178	645	323	14,352	761	3,802	1,02
26 UNIV OF TEXAS AT AUSTIN	23,830	3,496	5,195	2,124	588	2,897	1,748	1,399	7,38
27 DUKE UNIVERSITY	23,369	463	1,510	330	139	19,512	347	864	
28 YESHIVA UNIVERSITY	23,272	0	1,072	0	352	21,097	751	0	
29 OHIO STATE UNIVERSITY	21,116	4,520	2,230	548	495	9,742	182	3,220	17
30 UNIVERSITY OF MIAMI	20,819	1,075	491	4,415	26	13,851	244	577	15
TOTAL 1ST 30 INSTS.	1,149,161	111,392	147,362	94,962	31,812	640,932	25,961	63,874	33,76
31 U OF CAL DAVIS	20,573	1,040	811	93	7	17,175	70	558	81
32 UNIVERSITY OF UTAH	20,504	2,089	1,882	2,963	1,447	10,614	393	901	21
33 PURDUE UNIV ALL CAMPUSES	20,278	6,375	2,940	361	604	8,063	536	1,387	2
34 CALIFORNIA INST OF TECH	19,262	4,253	8,204	2,818	222	3,540	0	366	5
35 BAYLOR COLLEGE OF MED	18,118	0	0	0	0	18,118	0	0	
36 COLORADO STATE UNIVERSITY	17,900	4,491	853	1,027	115	9,107	210	1,479	2
37 UNIVERSITY OF IOWA	17,553	532	3,067	49	157	13,089	140	519	
38 CASE WESTERN RESERVE UNIV	17,460	4,933	2,220	305	84	9,364	101	393	
39 TEXAS A & M UNIVERSITY	16,180	3,022	2,697	3,996	142	5,017	0	457	2
40 PENNSYLVANIA STATE UNIV	16,209	2,517	2,277	2,914	171	4,370	417	1,932	1,20
TOTAL 1ST 40 INSTS.	1,333,096	141,224	172,619	109,158	34,766	739,189	27,892	71,866	36,3
41 NORTHWESTERN UNIVERSITY	15,611	2,055	1,550	238	374	8,124	518	565	2,1
42 UNIVERSITY OF HAWAII	15,540	1,241	2,278	4,627	177	5,763	147	684	5
43 UNIV ALABAMA BIRMINGHAM	15,134	21	24	13	322	14,679	20	24	
44 WOODS HOLE OCNGRPHIC INST	14,946	2,732	0	12,214	0	0	0	0	
45 PRINCETON UNIVERSITY	14,918	4,268	5,200	1,244	946	1,007	728	775	
46 UNIVERSITY OF ARIZONA	14,902	796	5,801	1,195	113	4,833	852	770	5
47 UNIVERSITY OF PITTSBURGH	14,742	874	5,167	108	95	9,834	469	135	
48 UNIVERSITY OF FLORIDA	14,214	2,472	882	130	67	10,754	205	254	
49 BOSTON UNIVERSITY	13,935	443	654	0	69	11,915	95	221	1,3
50 OREGON STATE UNIVERSITY	13,600	904	646	4,546	143	6,715	0	410	2
TOTAL 1ST 50 INSTS.	1,481,138	159,650	193,469	133,473	37,052	813,063	30,928	75,694	41,1

SEE FOOTNOTES AT END OF TABLE.

TABLE B-35.
CONTINUED

FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1979

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 CUNY MT SINAI SCH OF MED	13,492	0	0	0	0	13,492	0	0	0
52 SUNY BUFFALO	13,485	1,808	672	90	990	9,820	110	896	19
53 UNIV OF MD COLLEGE PARK	13,380	2,186	6,621	61	489	2,690	334	344	255
54 VANDERBILT UNIVERSITY	13,341	471	699	1	17	11,045	281	227	0
55 GEORGE WASHINGTON UNIV	13,011	2,229	65	20	3,220	4,610	500	1,689	677
56 UNIVERSITY OF ALASKA	12,947	131	1,734	6,758	41	2,418	0	863	2
57 ROCKEFELLER UNIVERSITY	12,582	0	664	0	0	9,448	2,191	0	0
58 TEMPLE UNIVERSITY	11,672	45	961	5	24	9,032	200	950	56
59 UNIVERSITY OF VIRGINIA	10,816	2,409	1,469	810	242	5,353	197	327	9
60 UNIVERSITY OF KANSAS	10,726	1,393	595	110	103	4,808	3,559	176	0
TOTAL 1ST 60 INSTS.	1,604,211	166,382	206,747	141,278	42,396	888,578	37,248	81,176	42,163
61 U OF TEX M D ANDERSON HOS	10,692	0	469	0	341	9,382	0	0	0
62 RUTGERS THE STATE UNIV	10,484	596	1,859	818	931	3,051	1,355	1,856	0
63 UNIVERSITY OF GEORGIA	10,299	78	646	746	462	7,070	288	1,109	0
64 U OF CAL IRVINE	9,987	471	2,917	0	69	6,306	0	624	0
65 CARNEGIE-MELLON UNIV	9,966	3,209	2,743	0	2,033	581	501	951	0
66 EMORY UNIVERSITY	9,094	0	282	3	16	9,225	70	103	4
67 N C STATE UNIV AT RALEIGH	9,496	1,844	475	600	237	5,518	75	485	458
68 GEORGIA INSTITUTE OF TECH	9,184	5,547	2,651	386	526	171	32	382	289
69 INDIANA UNIV-BLOOMINGTON	8,898	0	3,554	160	216	1,449	423	1,720	1,394
70 UNIVERSITY OF CONNECTICUT	8,819	803	410	342	462	5,702	268	832	0
TOTAL 1ST 70 INSTS.	1,701,630	178,955	221,177	144,332	48,573	934,963	40,298	89,438	44,306
71 UNIV OF MISSOURI COLUMBIA	8,796	512	111	249	51	7,136	77	666	0
72 NEW MEXICO STATE UNIV	8,746	4,081	452	527	2,703	405	146	572	0
73 SUNY STONY BROOK	8,682	1,429	2,015	714	459	3,043	537	316	169
74 UNIV OF MD BALTIMORE	8,445	0	0	0	0	8,423	0	22	0
75 FLORIDA STATE UNIVERSITY	8,426	0	1,587	1,420	260	1,449	338	3,374	0
76 UTAH STATE UNIVERSITY	8,375	3,533	36	1,055	25	3,426	8	292	0
77 ST LOUIS UNIV	8,235	406	114	306	0	6,987	100	322	0
78 BROWN UNIVERSITY	8,143	1,694	1,554	688	1,279	1,832	460	676	0
79 UNIVERSITY OF CINCINNATI	8,105	1,152	180	62	42	6,468	34	168	19
80 UNIV OF KENTUCKY ALL CAM	7,851	1,456	294	7	26	4,759	47	794	468
TOTAL 1ST 80 INSTS.	1,765,636	193,136	227,520	149,154	53,276	978,911	42,055	96,640	44,962
81 TULANE UNIVERSITY	7,734	295	104	7	149	6,749	181	149	100
82 SUNY UPSTATE MEDICAL CTR	7,610	0	0	0	0	7,610	0	0	0
83 VIRGINIA POLYTECHNIC INST	7,547	1,959	230	227	7	3,955	0	452	716
84 UNIVERSITY OF OREGON	7,506	0	1,433	230	87	1,298	542	3,853	64
85 UNIV OF MASS AT AMHERST	7,396	1,020	1,902	677	344	2,217	571	607	60
86 SUNY DOWNSTATE MED CTR	7,336	0	0	0	0	7,336	0	0	0
87 UNIV OF VT & ST AGRIC COL	7,240	146	218	60	1	6,281	415	64	55
88 IOWA ST U OF SCI & TECH	7,235	1,338	342	25	354	3,956	19	877	324
89 UNIVERSITY OF NEW MEXICO	7,225	2,155	299	298	35	4,196	214	28	0
90 U TEX HLTH SCI CTR DALLAS	6,898	0	0	0	0	6,898	0	0	0
TOTAL 1ST 90 INSTS.	1,859,363	200,049	232,048	150,698	54,255	1,029,407	43,976	102,669	46,261
91 U OF CAL RIVERSIDE	6,702	786	1,009	1,123	217	2,756	263	92	454
92 UNIVERSITY OF DAYTON	6,548	3,507	1,408	0	896	456	0	9	276
93 BRANDEIS UNIVERSITY	6,438	0	1,257	0	205	2,726	16	1,757	477
94 UNIVERSITY OF DENVER	6,329	2,260	948	160	118	49	562	2,399	33
95 U TENN MED UNITS MEMPHIS	6,244	0	0	0	0	6,244	0	0	0
96 OKLAHOMA STATE UNIVERSITY	6,216	2,086	401	30	11	2,547	7	283	851
97 INDIANA UNIVERSITY-PURDUE	6,102	0	0	0	0	6,083	0	19	0
98 TUFTS UNIVERSITY	6,016	246	362	0	4	4,928	83	365	28
99 U TEX GALVESTON MED BRAN	5,841	0	0	0	0	5,841	0	0	0
100 SYRACUSE UNIVERSITY	5,780	2,261	916	10	428	642	88	1,322	113
TOTAL 1ST 100 INSTS.	1,921,579	211,195	238,349	152,021	56,130	1,061,681	44,795	108,915	48,493

SEE FOOTNOTES AT END OF TABLE.

TABLE B-35.
CONTINUED

FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
101 KANSAS ST UNIVERSITY	5,611	403	206	200	144	3,471	64	281	654
102 DUKE UNIVERSITY	5,499	1,016	2,476	387	382	893	2	161	80
103 WEST VIRGINIA UNIVERSITY	5,469	1,089	41	21	-	3,588	20	231	0
104 UNIV OF RHODE ISLAND	5,400	608	0	3,091	0	498	0	466	0
105 WAYNE STATE UNIVERSITY	5,457	644	975	23	42	3,282	46	445	0
106 GEORGETOWN UNIVERSITY	5,448	0	485	0	0	4,524	10	147	282
107 VIRGINIA COMMONWLTH UNIV	5,436	0	0	0	0	5,436	0	0	0
108 THOM JEFFERSON UNIV HOSP	5,419	0	0	0	0	5,419	0	0	0
109 U TENNESSEE KNOXVILLE	5,326	2,659	869	117	50	802	185	516	128
110 U TEX MED SCH HOUSTON	5,243	0	0	0	0	5,243	0	0	0
TOTAL 1ST 110 INSTS.	1,975,947	216,211	243,481	156,748	56,749	1,094,937	49,122	111,062	49,637
111 DARTMOUTH COLLEGE	5,105	426	151	302	74	3,629	135	75	115
112 UNIVERSITY OF WYOMING	5,065	117	1,278	1,292	23	2,092	200	64	3
113 UNIVERSITY OF IDAHO	4,842	420	150	140	0	3,159	0	347	626
114 NEW YORK MEDICAL COLLEGE	4,757	0	0	0	0	4,757	0	0	0
115 UNIV OKLAHOMA	4,687	293	359	315	170	3,782	29	622	117
116 RENSSELAER POLY INST	4,672	2,900E	1,372	870	262E	188E	0	0	0
117 U OF CAL SANTA BARBARA	4,565	217	1,569	590	308	752	591	445	93
118 UNIV OF NEBRASKA - LNCLN	4,460	255	769	841	18	2,278	62	237	0
119 COL OF MED & DENT OF N J	4,385	0	0	0	0	4,385	0	0	0
120 UNIVERSITY OF NOTRE DAME	4,378	850	2,403	0	95	969	14	27	0
TOTAL 1ST 120 INSTS.	2,022,867	223,669	251,597	160,215	57,697	1,119,946	48,153	112,879	50,591
121 U OF OREGON MED SCHOOL	4,289	0	0	0	0	4,210	79	0	0
122 AUBURN UNIVERSITY	4,230	1,074	0	529	0	2,279	0	348	0
123 UNIVERSITY OF HOUSTON	4,107	863	932	65	129	756	649	717	0
124 WASHINGTON STATE UNIV	4,100	745	719	154	85	1,841	110	446	0
125 MISSISSIPPI STATE UNIV	4,095	458	71	7	0	3,095	0	468	0
126 ALBANY MED COL OF UNION U	4,015	0	0	0	0	4,015	0	0	0
127 THE MED COLL OF WISCONSIN	4,006	0	0	0	0	4,006	0	0	0
128 INDIANA UNIV NORTHWEST	3,996	0	0	0	0	38	0	3,942	16
129 UNIV OF MAINE ORONO	3,946	216	107	745	0	1,908	107	624	261
130 U OF ILL MEDICAL CENTER	3,747	0	15	0	0	3,732	0	0	0
TOTAL 1ST 130 INSTS.	2,063,424	227,045	253,441	161,815	57,911	1,145,626	47,094	119,424	50,868
131 UNIV OF MISSISSIPPI	3,706	117	152	0	0	3,311	64	62	0
132 UNIVERSITY OF DELAWARE	3,685	1,162	534	926	23	738	54	232	0
133 U TEX HLTH SCI CR SAN ANT	3,658	0	0	0	0	3,658	0	0	0
134 U OF NEB MED C AT OMAHA	3,599	0	0	0	0	3,599	0	0	0
135 POLYTECHNIC INST OF N Y	3,337	2,708	438	118	47	26	0	0	0
136 LA ST U MED CTR N ORLEANS	3,298	0	0	0	0	3,298	0	0	0
137 S U N Y SYSTEM OFFICE	3,272I	352I	386I	296I	77I	1,759	98I	204I	100I
138 LEHIGH UNIVERSITY	3,235	1,957	419	419	168	181	9	50	332
139 LA ST U BATON ROUGE	3,222	406	1,017	1,183	105	329	146	36	0
140 U PUERTO RICO MAYAGUEZ	3,190	39	0	222	0	2,929	0	0	0
TOTAL 1ST 140 INSTS.	2,097,030	233,806	256,587	164,079	58,331	1,165,654	47,465	120,008	51,300
141 RUSH MEDICAL COLLEGE	3,149	0	0	0	0	3,071	38	0	40
142 US NAVAL POSTGRAD SCHOOL	3,095	1,037	367	418	1,262E	0	0	11	0
143 WAKE FOREST UNIVERSITY	3,069	0	51	0	3	2,927	18	70	0
144 MONTANA STATE UNIVERSITY	3,060	445	400	47	5	2,053	0	110	0
145 CLEMSON UNIVERSITY	2,932	629	146	179	40	2,020	0	18	0
146 SUNY ALBANY	2,900	0	1,108	377	66	765	7	349	28
147 MED UNIV OF SO CAROLINA	2,846	0	0	0	0	2,846	0	0	0
148 UNIVERSITY OF ARKANSAS	2,773	292	269	280	0	1,391	0	541	0
149 MEDICAL COLL OF GEORGIA	2,764	0	0	0	0	2,764	0	0	0
150 UNIV OF NORTH DAKOTA	2,708	1,241	107	374	0	972	0	14	0
TOTAL 1ST 150 INSTS.	2,126,926	237,450	258,735	166,554	59,707	1,184,463	47,528	121,121	51,368
TOTAL ALL OTHER INSTS.	157,053	22,074	25,929	14,012	5,161	53,034	13,665	18,664	4,514

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-36.

FEDERALLY FINANCED R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	1,340,781	146,441	157,091	124,055	32,152	708,457	42,098	90,331	40,176
1 U OF CAL SAN DIEGO	69,032	2,116	9,641	35,762	413	19,722	572	279	527
2 UNIVERSITY OF WASHINGTON	55,260	5,816	2,957	4,301	529	36,784	641	1,018	4,214
3 UNIV OF WISCONSIN-MADISON	48,217	1,897	5,799	4,635	1,499	23,806	2,925	6,552	1,104
4 U OF CAL LOS ANGELES	47,326	5,048	4,977	3,251	662	28,806	2,980	1,146	458
5 UNIVERSITY OF MICHIGAN	46,671	7,765	2,958	4,912	992	20,489	2,911	7,544	0
6 U OF CAL BERKELEY	46,048	8,305	10,942	1,188	1,114	20,594	1,128	3,157	160
7 UNIVERSITY OF MINNESOTA	41,827	3,194	3,890	551	502	30,066	690	2,639	295
8 U OF CAL SAN FRANCISCO	36,450	0	0	0	0	36,450	0	0	0
9 UNIV ILLINOIS URBANA	32,846	8,492	4,258	3,506	2,853	8,129	1,628	1,675	5,105
10 UNIVERSITY OF COLORADO	25,515	1,229	7,591	842	525	13,243	1,016	681	186
TOTAL 1ST 10 INSTS.	449,590	41,920	54,113	57,146	9,089	236,089	14,491	24,691	12,049
11 UNIV OF NC AT CHAPEL HILL	24,825	0	1,420	1,297	2,599	12,883	386	2,150	4,090
12 MICHIGAN STATE UNIVERSITY	24,257	372	2,978	645	323	14,352	761	3,802	1,024
13 UNIV OF TEXAS AT AUSTIN	23,830	3,496	5,195	1,124	588	2,897	1,748	1,399	7,383
14 OHIO STATE UNIVERSITY	21,116	4,526	2,230	548	495	9,742	182	3,220	173
15 U OF CAL DAVIS	20,573	1,046	811	93	7	17,175	70	558	813
16 UNIVERSITY OF UTAH	20,504	2,089	1,882	2,963	1,447	10,614	395	901	213
17 PURDUE UNIV ALL CAMPUSES	20,278	6,375	2,946	331	509	8,063	536	1,387	29
18 COLORADO STATE UNIVERSITY	17,902	4,491	853	1,627	113	9,107	210	1,479	20
19 UNIVERSITY OF IOWA	17,553	532	3,067	49	157	13,089	140	519	0
20 TEXAS A & M UNIVERSITY	16,180	3,622	2,697	3,996	142	5,017	0	457	249
TOTAL 1ST 20 INSTS.	636,606	66,469	78,192	69,821	15,571	339,028	18,921	40,563	26,043
21 PENNSYLVANIA STATE UNIV	16,105	2,517	2,577	2,914	171	4,370	417	1,932	1,207
22 UNIVERSITY OF HAWAII	15,340	1,341	2,278	4,027	177	5,765	147	684	523
23 UNIV ALABAMA BIRMINGHAM	15,134	21	24	13	322	14,679	20	24	31
24 UNIVERSITY OF ARIZONA	14,902	796	5,801	1,195	113	4,835	852	770	340
25 UNIVERSITY OF PITTSBURGH	14,742	874	3,167	108	95	9,894	469	135	0
26 UNIVERSITY OF FLORIDA	14,514	2,272	852	130	67	10,754	205	254	0
27 OREGON STATE UNIVERSITY	13,600	904	646	4,346	123	6,715	0	410	256
28 CUNY MT SINAI SCH OF MED	13,492	0	0	0	0	13,492	0	0	0
29 SUNY BUFFALO	13,485	808	672	90	990	9,820	130	896	19
30 UNIV OF MD COLLEGE PARK	13,380	2,280	6,621	61	885	2,090	334	344	253
TOTAL 1ST 30 INSTS.	801,902	80,240	100,810	83,505	18,520	422,038	21,495	46,012	28,874
31 UNIVERSITY OF ALASKA	12,047	131	1,734	6,758	41	3,418	0	963	2
32 TEMPLE UNIVERSITY	11,272	45	961	5	24	9,051	200	950	56
33 UNIVERSITY OF VIRGINIA	10,816	2,409	1,469	820	242	5,353	197	327	9
34 UNIVERSITY OF KANSAS	10,726	1,295	595	110	103	4,808	3,509	176	0
35 U OF TEX M D ANDERSON HOS	10,692	0	469	0	841	9,382	0	0	0
36 RUTGERS THE STATE UNIV	10,484	596	1,859	828	931	5,021	1,353	1,856	0
37 UNIVERSITY OF GEORGIA	10,399	78	646	746	462	7,070	288	1,109	0
38 U OF CAL IRVINE	9,987	471	2,517	0	65	6,306	0	624	0
39 N C STATE UNIV AT RALEIGH	9,496	1,844	279	500	237	5,518	75	485	458
40 GEORGIA INSTITUTE OF TECH	9,184	5,247	1,651	306	526	171	32	682	289
TOTAL 1ST 40 INSTS.	906,605	92,784	115,020	93,736	21,996	475,140	27,159	53,084	29,688
41 INDIANA UNIV-BLOOMINGTON	8,896	0	3,924	160	216	1,449	423	1,720	1,394
42 UNIVERSITY OF CONNECTICUT	8,819	803	410	342	462	5,702	268	832	0
43 UNIV OF MISSOURI COLUMBIA	8,796	512	111	245	31	7,130	77	666	0
44 NEW MEXICO STATE UNIV	8,740	4,081	452	327	2,761	405	146	572	0
45 SUNY STONY BROOK	8,682	1,429	2,015	714	459	3,043	537	316	169
46 UNIV OF MD BALTIMORE	8,445	0	0	0	0	8,423	0	22	0
47 FLORIDA STATE UNIVERSITY	8,428	0	1,587	1,420	260	1,449	338	3,374	0
48 UTAH STATE UNIVERSITY	8,375	3,533	36	1,035	25	3,426	8	292	0
49 UNIVERSITY OF CINCINNATI	8,105	1,232	180	62	43	6,408	34	168	19
50 UNIV OF KENTUCKY ALL CAM	7,851	1,456	294	7	20	4,759	47	794	468
TOTAL 1ST 50 INSTS.	911,746	105,710	121,649	98,368	26,300	517,406	29,037	61,840	31,736

SEE FOOTNOTES AT END OF TABLE.

TABLE B-36.
CONTINUED

FEDERALLY FINANCED R&D EXPENDITURES IN PUBLIC UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGI-NEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL	MATHE-MATICS	LIFE SCIENCES	PSYCHO-LOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 SUNY UPSTATE MEDICAL CTR	7,610	0	0	0	0	7,610	0	0	0
52 VIRGINIA POLYTECHNIC INST	7,547	1,959	230	227	7	3,955	0	453	716
53 UNIVERSITY OF OREGON	7,506	0	1,485	230	87	1,298	541	3,853	64
54 UNIV OF MASS AT AMHERST	7,398	1,020	1,902	677	344	2,217	571	607	60
55 SUNY DOWNSTATE MED CTR	7,336	0	0	0	0	7,336	0	0	0
56 UNIV OF VT & ST AGRIC COL	7,240	146	218	80	1	6,281	415	64	35
57 IOWA ST U OF SCI & TECH	7,235	1,528	342	25	354	3,956	19	877	324
58 UNIVERSITY OF NEW MEXICO	7,223	2,155	299	298	35	4,196	214	26	0
59 U TEX HLTH SCI CTR DALLAS	6,698	0	0	0	0	6,698	0	0	0
60 U OF CAL RIVERSIDE	6,702	786	1,009	1,123	217	2,758	263	92	454
TOTAL 1ST 60 INSTS.	1,064,443	113,114	127,082	100,728	27,345	563,911	31,060	67,812	33,391
61 U TENN MED UNITS MEMPHIS	6,244	0	0	0	0	6,244	0	0	0
62 OKLAHOMA STATE UNIVERSITY	6,216	2,086	401	30	11	2,547	7	283	851
63 INDIANA UNIVERSITY-PURDUE	6,102	0	0	0	0	6,083	0	19	0
64 U TEX GALVESTON MED BRAN	5,841	0	0	0	0	5,841	0	0	0
65 KANSAS ST UNIVERSITY	5,611	403	506	288	144	3,471	64	281	654
66 WEST VIRGINIA UNIVERSITY	5,469	1,689	21	21	1	3,586	20	131	0
67 UNIV OF RHODE ISLAND	5,460	605	0	3,891	0	498	0	466	0
68 WAYNE STATE UNIVERSITY	5,457	644	975	25	42	3,282	46	445	0
69 VIRGINIA COMMONWLTH UNIV	5,436	0	0	0	0	5,436	0	0	0
70 U TENNESSEE KNOXVILLE	5,326	2,659	669	117	50	802	185	516	128
TOTAL 1ST 70 INSTS.	1,121,605	121,200	129,654	105,098	27,592	602,702	31,382	69,953	35,024
71 U TEX MED SCH HOUSTON	5,243	0	0	0	0	5,243	0	0	0
72 UNIVERSITY OF WYOMING	5,069	117	1,278	1,292	23	2,092	200	64	3
73 UNIVERSITY OF IDAHO	4,842	420	150	140	0	3,159	0	347	526
74 UNIV OKLAHOMA	4,687	293	559	525	170	2,782	29	622	117
75 U OF CAL SANTA BARBARA	4,565	217	1,569	590	308	752	591	445	93
76 UNIV OF NEBRASKA - LNCLN	4,460	255	769	841	18	2,278	62	237	- 0
77 COL OF MED & DENT OF N J	4,385	0	0	0	0	4,385	0	0	0
78 U OF OREGON MED SCHOOL	4,289	0	0	0	0	4,210	79	0	0
79 AUBURN UNIVERSITY	4,250	1,074	0	529	0	2,279	0	348	0
80 UNIVERSITY OF HOUSTON	4,107	863	932	65	129	756	645	717	0
TOTAL 1ST 80 INSTS.	1,267,482	124,439	134,711	108,870	28,241	629,637	32,988	72,733	35,863
81 WASHINGTON STATE UNIV	4,100	745	719	134	85	1,841	110	446	0
82 MISSISSIPPI STATE UNIV	4,099	458	72	7	0	3,095	0	468	0
83 INDIANA UNIV NORTHWEST	3,996	0	0	0	0	38	0	3,942	16
84 UNIV OF MAINE ORONO	3,968	216	107	745	0	1,908	107	624	261
85 U OF ILL MEDICAL CENTER	3,747	0	15	0	0	3,732	0	0	0
86 UNIV OF MISSISSIPPI	3,706	117	152	0	0	3,311	64	62	0
87 UNIVERSITY OF DELAWARE	3,689	1,182	934	926	21	738	54	232	0
88 U TEX HLTH SCI CR SAN ANT	3,658	0	0	0	0	3,658	0	0	0
89 U OF NEB MED C AT OMAHA	3,599	0	0	0	0	3,599	0	0	0
90 LA ST U MED CTR N ORLEANS	3,298	0	0	0	0	3,298	0	0	0
TOTAL 1ST 90 INSTS.	1,303,342	127,157	136,309	110,702	28,349	683,855	33,323	78,507	36,140
91 S U N Y SYSTEM OFFICE	3,272I	592I	596I	296I	77I	1,755I	98I	104I	100I
92 LA ST U BATON ROUGE	3,222	406	1,017	1,185	105	329	146	36	0
93 U PUERTO RICO MAYAGUEZ	3,190	29	0	222	0	2,929	0	0	0
94 US NAVAL POSTGRAD SCHOOL	3,099	1,037	527	418	2,062	0	0	11	0
95 MONTANA STATE UNIVERSITY	3,060	445	400	47	5	2,053	0	110	0
96 CLEMSON UNIVERSITY	2,932	629	46	179	40	2,020	0	18	0
97 SUNY ALBANY	2,900	0	1,106	377	66	765	7	349	28
98 MED UNIV OF SO CAROLINA	2,846	0	0	0	0	2,846	0	0	0
99 UNIVERSITY OF ARKANSAS	2,773	292	289	280	0	1,391	0	541	0
100 MEDICAL COLL OF GEORGIA	2,754	0	0	0	0	2,754	0	0	0
TOTAL 1ST 100 INSTS.	1,335,396	130,337	139,902	113,904	29,904	671,711	33,574	79,776	36,268
TOTAL ALL OTHER INSTS.	105,385	16,084	17,169	10,131	2,246	30,746	8,524	10,533	3,908

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-37.

FEDERALLY FINANCED R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTION RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	948,260	111,083	127,073	58,581	32,710	529,040	19,095	49,454	15,700
1 MASS INST OF TECHNOLOGY	69,599	24,490	19,711	4,944	6,672	11,230	996	1,667	187
2 STANFORD UNIVERSITY	59,340	10,840	10,113	3,400	3,143	27,035	789	4,542	755
3 COLUMBIA UNIV MAIN DIV	50,652	1,987	5,119	10,235	410	26,618	366	3,013	4,904
4 HARVARD UNIVERSITY	49,667	690	8,317	3,209	570	32,159	929	3,572	221
5 JOHNS HOPKINS UNIVERSITY	45,767	744	2,279	2,812	102	37,959	226	1,581	85
6 UNIVERSITY OF CHICAGO	42,396	0	8,681	1,811	946	30,573	710	2,374	0
7 CORNELL UNIVERSITY	38,841	5,739	9,112	470	799	18,602	152	1,928	53
8 YALE UNIVERSITY	35,255	1,339	4,642	737	396	25,493	800	1,846	0
9 UNIV OF PENNSYLVANIA	34,764	1,538	4,210	26	1,191	25,846	313	1,686	0
10 NEW YORK UNIVERSITY	31,714	948	1,810	224	3,493	22,448	538	1,982	263
TOTAL 1ST 10 INSTS.	459,213	48,083	71,920	26,881	17,726	258,165	5,799	24,191	6,468
11 WASHINGTON UNIV ST LOUIS	27,101	3,844	1,364	24	116	19,761	218	308	1,486
12 UNIVERSITY OF ROCHESTER	26,852	1,154	4,015	84	258	14,273	662	463	943
13 UNIV OF SOUTHN CALIFORNIA	24,921	2,479	1,094	1,366	111	13,290	372	2,209	0
14 DUKE UNIVERSITY	22,365	483	1,510	530	139	14,512	547	864	0
15 YESHIVA UNIVERSITY	22,272	0	1,072	0	352	21,047	751	0	0
16 UNIVERSITY OF MIAMI	20,819	1,075	491	4,415	16	13,851	244	577	150
17 CALIFORNIA INST OF TECH	19,262	4,255	8,204	2,818	222	3,340	0	366	57
18 BAYLOR COLLEGE OF MED	18,118	0	0	0	0	18,118	0	0	0
19 CASE WESTERN RESERVE UNIV	17,460	4,955	2,220	305	84	9,364	101	393	0
20 NORTHWESTERN UNIVERSITY	15,811	2,035	1,950	138	374	8,124	518	565	2,101
TOTAL 1ST 20 INSTS.	676,194	72,317	93,860	36,501	19,396	403,905	9,072	29,936	11,205
21 WOODS HOLE OCNGRPHIC INST	14,946	2,732	0	12,214	0	0	0	0	0
22 PRINCETON UNIVERSITY	14,918	4,260	5,500	1,294	946	1,607	728	775	0
23 BOSTON UNIVERSITY	13,935	143	652	0	69	11,515	95	121	1,340
24 VANDERBILT UNIVERSITY	13,241	471	699	1	17	11,645	281	227	0
25 GEORGE WASHINGTON UNIV	13,011	2,224	63	20	3,228	4,810	100	1,689	677
26 ROCKEFELLER UNIVERSITY	11,503	0	664	0	0	9,446	1,392	0	0
27 CARNEGIE-MELLON UNIV	9,968	3,209	2,743	0	2,033	531	501	951	0
28 EMORY UNIVERSITY	9,694	0	282	2	10	9,225	70	103	2
29 ST LOUIS UNIV	8,235	406	114	306	0	6,987	100	322	0
30 BROWN UNIVERSITY	8,145	1,654	1,554	668	1,279	1,832	460	676	0
TOTAL 1ST 30 INSTS.	795,688	87,426	105,871	51,086	26,976	481,505	12,998	34,800	15,224
31 TULANE UNIVERSITY	7,734	295	104	7	149	6,749	181	149	100
32 UNIVERSITY OF DAYTON	6,548	3,307	2,408	0	892	456	0	9	276
33 BRANDEIS UNIVERSITY	6,436	0	1,257	0	205	2,726	10	1,757	1,479
34 UNIVERSITY OF DENVER	6,329	2,280	948	160	120	49	262	2,399	33
35 TUFTS UNIVERSITY	6,016	240	362	0	4	4,928	83	365	28
36 SYRACUSE UNIVERSITY	5,780	2,681	916	10	426	842	86	1,522	113
37 RICE UNIVERSITY	5,499	1,016	2,476	387	982	995	2	161	80
38 GEORGETOWN UNIVERSITY	5,446	0	485	0	0	4,524	10	145	282
39 THOM JEFFERSON UNIV HOSP	5,419	0	0	0	0	5,419	0	0	0
40 DARTMOUTH COLLEGE	5,107	426	381	302	72	3,629	135	47	115
TOTAL 1ST 40 INSTS.	859,204	97,437	114,178	51,952	29,226	491,822	13,875	41,824	14,728
41 NEW YORK MEDICAL COLLEGE	4,757	0	0	0	0	4,757	0	0	0
42 RENSSELAER POLY INST	4,672	2,900	1,287	87	202	166	0	0	0
43 UNIVERSITY OF NOTRE DAME	4,376	850	2,403	0	95	989	14	27	0
44 ALBANY MED COL OF UNION U	4,015	0	0	0	0	4,015	0	0	0
45 THE MED COLL OF WISCONSIN	4,006	0	0	0	0	4,006	0	0	0
46 POLYTECHNIC INST OF N Y	3,837	2,708	908	118	47	26	0	0	0
47 LEHIGH UNIVERSITY	3,255	1,957	419	119	168	181	9	50	332
48 RUSH MEDICAL COLLEGE	3,149	0	0	0	0	3,071	38	0	40
49 WAKE FOREST UNIVERSITY	3,069	0	51	0	5	2,927	16	70	0
50 HOWARD UNIVERSITY	2,812	922	1218	0	47	2,2663	0	1402	0
TOTAL 1ST 50 INSTS.	891,434	105,543	118,857	52,276	29,807	514,046	13,954	41,471	15,100

SEE FOOTNOTES AT END OF TABLE.

TABLE B-37.
CONTINUED

FEDERALLY FINANCED R&D EXPENDITURES IN PRIVATE UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 BOSTON COLLEGE	2,578	0	495	305	1,282	121	1	374	0
52 AMERICAN UNIVERSITY THE	2,364	0	290	0	60	207	224	1,613	0
53 CATHOLIC UNIV OF AMERICA	2,331	805	690	274	0	60	162	329	11
54 STEVENS INSTITUTE OF TECH	2,080	1,530	550	0	0	0	0	0	0
55 NORTHEASTERN UNIVERSITY	2,067	829	664	11	51	66	235	211	0
56 LOYOLA UNIVERSITY	1,769	0	25	0	0	1,430	24	274	16
57 THE MED COLL OF PENNA	1,722	0	0	0	0	1,722	0	0	0
58 DREXEL UNIVERSITY	1,560	861	328	180	95	127	69	0	0
59 ILLINOIS INST OF TECH	1,524	703E	567	0	30	217	7	0	0
60 BRIGHAM YOUNG UNIVERSITY	1,477	114E	373E	30E	48E	275E	0	615E	22E
TOTAL 1ST 60 INSTS.	$11,006	110,815	122,819	53,076	31,343	518,241	14,676	44,887	15,149
61 UNIVERSITY OF THE PACIFIC	1,390	0	20	0	0	1,320	50	0	0
62 LOMA LINDA UNIVERSITY	1,334	0	0	0	320	829	185	0	0
63 TEXAS CHRISTIAN UNIV	1,316	0	47	0	13	0	1,220E	36	0
64 GEO PEABODY COL TEACHERS	1,281	0	0	0	0	0	1,281	0	0
65 HAHNEMAN MEDICAL COLLEGE	1,256	0	0	0	0	1,256	0	0	0
66 ANTIOCH COLLEGE	1,195I	59I	196I	92I	14I	310I	74I	408I	42I
67 SOUTHERN METHODIST UNIV	1,130	287	0	295	214	6	1	329	0
68 TUSKEGEE INSTITUTE	1,026	70	155	0	0	736	0	76	9
69 WENTWORTH INST/COLLEGE	1,015	35	29	951	0	0	0	0	0
70 MEHARRY MEDICAL COLLEGE	925	0	101	0	0	686	138	0	0
TOTAL 1ST 70 INSTS.	$22,874	111,266	123,377	54,412	31,904	523,384	17,595	45,736	15,200
71 CLARKSON COL OF TECH	900	354	455	0	67	0	0	19	1
72 FORDHAM UNIVERSITY	888	0	199	71	29	41	42	508	0
73 CREIGHTON UNIVERSITY	87	0	0	0	0	627	0	0	0
74 NOVA UNIVERSITY	760	0	0	634	0	60	0	65	1
75 UNIVERSITY OF SANTA CLARA	737	269	80	171	18	9	0	65	125
76 TRINITY UNIVERSITY	732	1	2	52	0	3	0	656E	18
77 WESLEYAN UNIVERSITY	707	0	109	18	21	440	52	15	52
78 MARQUETTE UNIVERSITY	669	91	16	0	0	136	0	426	0
79 AMHERST COLLEGE	557	0	253	12	3	277	13	0	0
80 UNIV OF SAN FRANCISCO	537E	0E	32E	0E	7E	299E	83E	106E	10E
TOTAL 1ST 80 INSTS.	$30,186	111,981	124,527	55,370	31,044	525,478	17,785	47,596	15,407
81 CLARK UNIVERSITY	449	0	100	91	4	45	126	83	0
82 EMMANUEL COLLEGE	446	0	446	0	0	0	0	0	0
83 CLAREMONT GRAD SCHOOL	404	0	0	0	9	8	168	219	0
84 WORCESTER POLY INSTITUTE	402	308	82	0	0	12	0	0	0
85 U HLTH SCI/CHCGO MED SCH	401	0	0	0	0	401	0	0	0
86 POMONA COLLEGE	384	0	218	3	16	0	141	6	0
87 REGIS COLLEGE	381	0	0	0	381	0	0	0	0
88 FLORIDA INST OF TECH	344	140	15	117	0	51	0	0	35
89 HAVERFORD COLLEGE	330	0	66	0	1	258	0	5	0
90 ATLANTA UNIVERSITY	301	0	72	0	0	229	0	0	0
TOTAL 1ST 90 INSTS.	$34,028	112,429	125,526	55,581	32,455	526,482	18,218	47,909	15,442
91 DUQUESNE UNIVERSITY	298	0	84	0	0	206	0	8	0
92 FAIRFIELD UNIVERSITY	291	0	154	0	0	0	0	137	0
93 ADELPHI UNIV	287	0	111	90	6	80	0	0	0
94 GALLAUDET COLLEGE	280	0	79	0	0	66	86	47	0
95 NEW ENGLAND INSTITUTE	271	91	101	24I	1I	1I	3I	2I	0
96 DRAKE UNIVERSITY	267	0	0	9	0	0	0	227	31
97 MANHATTAN COLLEGE	244	6E	12	181	0	34	0	0	0
98 BRYN MAWR COLLEGE	240	0	11	11	0	93	85	48	0
99 FISK UNIVERSITY	243	0	24	0	0	90	0	119E	0
100 REED COLLEGE	241	0	33	0	0	204	4	0	0
TOTAL 1ST 100 INSTS.	$36,703	112,446	126,054	56,117	32,462	527,256	18,396	48,497	15,473
TOTAL ALL OTHER INSTS.	6,495	637	1,519	414	254	1,782	699	957	233

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-38.

FEDERALLY FINANCED LIFE SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS LIFE SCIENCES TOTAL 1975	1974	1973	1975 SCIENCE FIELDS LIFE SCIENCES TOTAL	BIO-LOGICAL SCIENCES	AGRI-CULTURAL SCIENCES	MEDICAL	OTHER
UNITED STATES TOTAL	1,237,497	1,051,617	1,014,279	1,237,497	432,265	122,175	641,507	51,550
1 JOHNS HOPKINS UNIVERSITY	37,959	32,373	30,004	37,959	10,895	0	19,051	8,015
2 UNIVERSITY OF WASHINGTON	36,784	32,257	30,712	36,784	9,035	3,754	23,187	808
3 U OF CAL SAN FRANCISCO	36,450	27,979	23,956	36,450	0	0	36,450	0
4 HARVARD UNIVERSITY	32,159	28,908	29,040	32,159	10,743	11	15,405	0
5 UNIVERSITY OF CHICAGO	30,573	25,086	23,639	30,573	13,098	0	17,475	0
6 UNIVERSITY OF MINNESOTA	30,066	22,403	18,545	30,066	7,033	4,530	18,503	0
7 U OF CAL LOS ANGELES	26,806	23,826	26,072	26,806	2,400	0	26,406	0
8 STANFORD UNIVERSITY	27,035	20,748	21,033	27,035	8,744	0	16,291	0
9 COLUMBIA UNIV MAIN DIV	26,816	23,005	21,248	26,818	10,160	560	12,295	3,897
10 UNIV OF PENNSYLVANIA	25,048	24,270	18,379	25,048	7,476	0	16,053	1,719
TOTAL 1ST 10 INSTS.	312,496	260,923	242,628	312,496	85,586	8,855	203,016	14,439
11 YALE UNIVERSITY	25,493	21,103	20,056	25,493	9,842	166	15,484	0
12 UNIV OF WISCONSIN-MADISON	23,606	21,203	16,888	23,806	7,182	4,277	11,938	409
13 NEW YORK UNIVERSITY	22,448	17,095	16,658	22,448	4,095	0	18,353	0
14 YESHIVA UNIVERSITY	21,097	18,762	18,957	21,097	6,120	0	11,600	3,377
15 U OF CAL BERKELEY	20,594	18,939	17,420	20,594	10,305	4,552	5,736	0
16 UNIVERSITY OF MICHIGAN	20,489	17,174	17,684	20,489	8,700	0	11,789	0
17 WASHINGTON UNIV ST LOUIS	19,781	16,407	14,909	19,781	6,963	0	10,987	1,831
18 U OF CAL SAN DIEGO	19,722	16,098	22,224	19,722	2,369	0	17,353	0
19 DUKE UNIVERSITY	19,512	14,136	15,544	19,512	7,512	24	9,300	2,676
20 UNIVERSITY OF ROCHESTER	19,273	20,339	21,210	19,273	10,311	0	8,259	703
TOTAL 1ST 20 INSTS.	524,713	442,179	424,376	524,713	158,988	17,875	324,413	23,435
21 CORNELL UNIVERSITY	18,602	16,609	15,625	18,602	5,686	5,003	7,913	0
22 BAYLOR COLLEGE OF MED	18,118	15,650	13,235	18,118	8,648	0	9,470	0
23 U OF CAL DAVIS	17,175	14,943	14,781	17,175	2,523	2,425	12,227	0
24 UNIV ALABAMA BIRMINGHAM	14,079	12,727	10,687	14,079	1,580	0	13,099	0
25 MICHIGAN STATE UNIVERSITY	14,352	10,726	10,833	14,352	4,384	4,972	4,919	72
26 UNIVERSITY OF MIAMI	13,851	13,500	12,587	13,851	3,779	0	8,285	1,787
27 CUNY MT SINAI SCH OF MED	13,492	8,746	8,055	13,492	3,238	0	10,254	0
28 UNIV OF STHRN CALIFORNIA	13,290	10,715	11,564	13,290	4,390	0	8,065	835
29 UNIVERSITY OF COLORADO	13,243	10,625	11,042	13,243	5,749	0	7,494	0
30 UNIVERSITY OF IOWA	13,089	10,280	8,796	13,089	4,146	0	8,943	0
TOTAL 1ST 30 INSTS.	674,604	566,690	541,583	674,604	203,716	30,975	415,084	24,129
31 UNIV OF NC AT CHAPEL HILL	12,883	10,598	12,150	12,883	5,922	0	6,961	0
32 VANDERBILT UNIVERSITY	11,645	10,168	10,336	11,645	5,826	34	3,856	1,929
33 BOSTON UNIVERSITY	11,515	9,148	7,392	11,515	473	0	11,042	0
34 MASS INST OF TECHNOLOGY	11,230	9,307	8,900	11,230	9,646	0	1,584	0
35 UNIVERSITY OF FLORIDA	10,754	6,240	6,275	10,754	2,378	0	8,376	0
36 UNIVERSITY OF UTAH	10,014	10,013	12,173	10,014	5,035	0	4,038	1,541
37 UNIVERSITY OF PITTSBURGH	9,894	7,882	8,990	9,894	4,476	0	3,474	1,944
38 SUNY BUFFALO	9,820	8,892	4,288	9,820	3,708	0	6,112	0
39 OHIO STATE UNIVERSITY	9,742	8,307	7,564	9,742	1,023	2,545	5,982	192
40 ROCKEFELLER UNIVERSITY	9,448	8,319	7,447	9,448	9,259	0	189	0
TOTAL 1ST 40 INSTS.	782,149	655,570	627,026	782,149	250,862	32,854	466,698	31,735
41 U OF TEX M D ANDERSON HOS	9,382	8,291	6,716	9,382	1,999	0	6,581	802
42 CASE WESTERN RESERVE UNIV	9,364	8,057	8,169	9,364	3,342	0	6,022	0
43 EMORY UNIVERSITY	9,225	7,138	6,853	9,225	2,107	0	5,297	1,821
44 COLORADO STATE UNIVERSITY	9,107	8,128	5,964	9,107	4,703	2,371	2,033	0
45 TEMPLE UNIVERSITY	9,031	8,890	5,113	9,031	5,173	0	3,838	20
46 UNIV OF MD BALTIMORE	8,423	6,708	5,695	8,423	4,285	0	3,998	140
47 NORTHWESTERN UNIVERSITY	8,114	5,505	5,774	8,114	2,673	0	4,448	993
48 PURDUE UNIV ALL CAMPUSES	8,063	6,704	6,232	8,063	4,054	2,871	1,141	0
49 SUNY UPSTATE MEDICAL CTR	7,610	6,024	6,720	7,610	1,410	0	1,937	4,263
50 SUNY DOWNSTATE MED CTR	7,336	6,001	4,126	7,336	1,833	0	5,503	0
TOTAL 1ST 50 INSTS.	867,804	727,016	688,388	867,804	282,438	38,096	507,490	39,774

SEE FOOTNOTES AT END OF TABLE.

TABLE B-38.
CONTINUED

FEDERALLY FINANCED LIFE SCIENCE R&D EXPENDITURES
IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER
OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	LIFE SCIENCES TOTAL			LIFE SCIENCES TOTAL	BIO-LOGICAL SCIENCES	AGRI-CULTURAL SCIENCES	MEDICAL	OTHER
	1972	1974	1973					
51 UNIV OF MISSOURI COLUMBIA	7,136	6,921	6,201	7,136	1,123	2,866	3,147	0
52 UNIVERSITY OF GEORGIA	7,070	5,117	6,975	7,070	3,836	2,722	514	0
53 ST LOUIS UNIV	6,987	2,747	3,052E	6,987	3,528	0	3,459	0
54 U TEX HLTH SCI CTR DALLAS	6,698	5,349	4,741	6,698	0	0	6,698	0
55 TULANE UNIVERSITY	6,744	6,349	6,884	6,744	2,264	0	2,480	994
56 OREGON STATE UNIVERSITY	6,715	5,819	5,472	6,715	2,055	4,448	149	67
57 UNIVERSITY OF CINCINNATI	6,468	5,250	4,802	6,468	2,838	0	3,630	0
58 U OF CAL IRVINE	6,306	4,502	3,631	6,306	2,011	0	4,295	0
59 UNIV OF VT & ST AGRIC COL	6,261	4,226	3,780	6,261	1,786	506	3,509	482
60 U TENN MED UNITS MEMPHIS	6,244	5,298	6,001	6,244	994	0	5,125	125
TOTAL 1ST 60 INSTS.	934,658	774,494	740,627	934,658	303,880	48,624	540,702	41,452
61 UNIV ILLINOIS URBANA	6,129	5,274	6,595	6,129	2,699	2,598	781	81
62 INDIANA UNIVERSITY-PURDUE	6,083	5,600	5,638	6,083	2,211	0	3,872	0
63 U TEX GALVESTON MED BRAN	5,641	3,633	4,224	5,841	3,197	0	2,344	300
64 UNIVERSITY OF HAWAII	5,763	5,090	5,414	5,763	3,303	360	763	1,297
65 UNIVERSITY OF CONNECTICUT	5,702	4,689	4,998	5,702	3,436	495	1,737	34
66 N C STATE UNIV AT RALEIGH	5,518	5,270	6,430	5,518	1,655	3,863	0	0
67 VIRGINIA COMMONWLTH UNIV	5,436	5,152	5,282	5,436	1,605	0	3,831	0
68 THOM JEFFERSON UNIV HOSP	5,429	4,219	3,673	5,429	1,056	0	4,365	0
69 UNIVERSITY OF VIRGINIA	5,353	4,162	3,463	5,353	2,844	0	2,509	0
70 U TEX MED SCH HOUSTON	5,243	3,709	2,884	5,243	2,493	0	1,973	777
TOTAL 1ST 70 INSTS.	991,145	826,488	791,226	991,145	328,379	55,940	562,695	43,931
71 TEXAS A & M UNIVERSITY	5,017	4,231	5,135	5,017	244	4,307	162	304
72 TEMPLE UNIVERSITY	4,928	5,236	5,340	4,928	3,429	0	1,499	0
73 UNIVERSITY OF ARIZONA	4,833	4,727	5,420	4,833	1,449	899	2,344	126
74 GEORGE WASHINGTON UNIV	4,810	5,090	5,925	4,810	575	0	4,235	0
75 UNIVERSITY OF KANSAS	4,808	7,448	8,253	4,808	1,328	39	2,673	770
76 UNIV OF KENTUCKY ALL CAM	4,759	3,648E	3,966	4,759	1,218	0	2,296	1,245
77 NEW YORK MEDICAL COLLEGE	4,757	4,274	3,550	4,757	2,236	0	2,521	0
78 GEORGETOWN UNIVERSITY	4,224	3,786	3,920	4,224	1,440	0	2,084	0
79 COL OF MED & DENT OF N J	4,385	3,194	2,902	4,385	1,392	0	2,993	0
80 PENNSYLVANIA STATE UNIV	4,270	7,755	6,471E	4,370	1,238	3,026	21	85
TOTAL 1ST 80 INSTS.	1,038,236	875,677	841,908	1,038,336	342,924	64,213	584,716	46,471
81 U OF OREGON MED SCHOOL	4,210	4,660	4,571E	4,210	1,318	0	2,892	0
82 UNIVERSITY OF NEW MEXICO	4,196	3,052	2,031	4,196	1,400	0	2,796	0
83 ALBANY MED COL OF UNION U	4,015	3,139	3,167	4,015	996E	0	3,019E	0
84 THE MED COLL OF WISCONSIN	4,006	3,432	3,372	4,006	1,032	0	2,974	0
85 IOWA ST U OF SCI & TECH	3,956	3,828	3,527	3,956	903	2,691	362	0
86 VIRGINIA POLYTECHNIC INST	3,955	2,262	2,343	3,955	1,322	2,557	0	76
87 U OF ILL MEDICAL CENTER	3,732	3,965	4,208	3,732	1,823	0	1,909	0
88 U TEX HLTH SCI CR SAN ANT	3,658	2,755	2,599	3,658	1,207	0	2,451	0
89 DARTMOUTH COLLEGE	3,629	2,415	2,986	3,629	2,305	0	1,155	169
90 U OF NEB MED C AT OMAHA	3,599	3,338	2,984E	3,599	612	0	2,987	0
TOTAL 1ST 90 INSTS.	1,077,292	908,722	873,537	1,077,292	355,842	69,461	609,273	46,716
91 WEST VIRGINIA UNIVERSITY	3,586	2,771	3,368	3,586	675	1,717	1,194	0
92 KANSAS ST UNIVERSITY	3,471	3,523	3,452	3,471	632	2,831	8	0
93 UTAH STATE UNIVERSITY	3,426	3,009	2,837	3,426	2,772	522	132	0
94 CALIFORNIA INST OF TECH	3,340	2,965	2,843	3,340	3,340	0	0	0
95 UNIV OF MISSISSIPPI	3,311	3,231	3,451	3,311	1,418	0	1,893	0
96 LA ST U MED CTR N ORLEANS	3,298	2,580	2,060	3,298	1,419	0	1,879	0
97 WAYNE STATE UNIVERSITY	3,282	2,636	2,265	3,282	1,601	0	1,537	144
98 UNIVERSITY OF IDAHO	3,159	2,768	2,210	3,159	754	2,304	101	0
99 MISSISSIPPI STATE UNIV	3,095	3,045	3,117	3,095	661	2,046	0	388
100 RUSH MEDICAL COLLEGE	3,071	3,432	2,383	3,071	1,647	0	1,422	2
TOTAL 1ST 100 INSTS.	1,110,331	938,723	901,523	1,110,331	370,761	78,881	613,439	47,250
TOTAL ALL OTHER INSTS.	127,166	114,695	112,756	127,166	64,504	33,294	26,068	4,300

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS;
AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-39.

FEDERALLY FINANCED PHYSICAL SCIENCE R&D EXPENDITURES
IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER
OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	PHYSICAL SCIENCES 1975	PHYSICAL SCIENCES 1974	TOTAL 1973	PHYSICAL SCIENCES TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	OTHER
UNITED STATES TOTAL	284,664	269,783	270,384	284,664	19,524	92,724	149,879	22,540
1 MASS INST OF TECHNOLOGY	19,712	17,779	19,204	19,712	323	3,436	15,953	0
2 U OF CAL BERKELEY	10,942	8,984	8,029	10,942	1,010	2,504	1,401	6,027
3 STANFORD UNIVERSITY	10,130	9,345	8,272	10,130	0	1,626	8,504	0
4 U OF CAL SAN DIEGO	9,641	9,457	9,553	9,641	0	2,671	5,846	1,124
5 CORNELL UNIVERSITY	9,112	9,072	8,425	9,112	920	2,399	5,140	653
6 UNIVERSITY OF CHICAGO	8,681	8,439	8,321	8,681	265	2,362	4,933	1,121
7 HARVARD UNIVERSITY	8,317	8,489	8,089	8,317	1,558	2,610	4,149	0
8 CALIFORNIA INST OF TECH	8,204	7,400	6,746	8,204	1,740	2,722	3,742	0
9 UNIVERSITY OF COLORADO	7,591	6,392	6,911	7,591	1,728	1,011	1,141	3,711
10 UNIV OF MD COLLEGE PARK	6,021	5,500	6,552	6,021	0	1,243	5,378	0
TOTAL 1ST 10 INSTS.	98,951	90,856	90,502	98,951	7,544	22,584	56,187	12,636
11 UNIVERSITY OF ARIZONA	5,801	5,915	5,296	5,801	1,285	1,087	3,429	0
12 UNIV OF WISCONSIN-MADISON	5,799	5,615	5,921	5,799	305	2,536	2,471	427
13 PRINCETON UNIVERSITY	5,300	5,232	5,472	5,300	1,465	1,050	2,785	0
14 UNIV OF TEXAS AT AUSTIN	5,195	4,452	3,871	5,195	1,817	758	2,620	0
15 U OF CAL LOS ANGELES	4,977	4,161	4,257	4,977	110	1,947	2,920	0
16 YALE UNIVERSITY	4,642	4,939	4,503	4,642	162	1,558	2,922	0
17 UNIV ILLINOIS URBANA	4,358	4,143	3,704	4,358	180	1,722	2,456	0
18 UNIV OF PENNSYLVANIA	4,110	3,789	3,954	4,110	11	614	2,820	665
19 UNIVERSITY OF ROCHESTER	4,015	3,915	3,756	4,015	0	964	3,051	0
20 UNIVERSITY OF WASHINGTON	3,957	3,722	4,022	3,957	137	744	2,576	500
TOTAL 1ST 20 INSTS.	147,105	136,759	135,458	147,105	13,076	35,564	84,237	14,228
21 UNIVERSITY OF MINNESOTA	3,890	4,001	3,765	3,890	0	1,067	2,823	0
22 INDIANA UNIV-BLOOMINGTON	3,534	2,479	3,159	3,534	28	1,240	2,266	0
23 UNIVERSITY OF PITTSBURGH	3,167	2,670	2,628	3,167	0	1,017	2,150	0
24 COLUMBIA UNIV MAIN DIV	3,119	3,019	4,181	3,119	95	1,993	1,031	0
25 UNIVERSITY OF IOWA	3,067	3,297	3,423	3,067	0	228	2,839	0
26 MICHIGAN STATE UNIVERSITY	2,978	2,974	2,678	2,978	35	870	2,044	21
27 UNIVERSITY OF MICHIGAN	2,958	2,982	2,836	2,958	407	635	1,916	0
28 PURDUE UNIV ALL CAMPUSES	2,946	2,951	2,857	2,946	0	1,578	1,368	0
29 CARNEGIE-MELLON UNIV	2,743	2,611	2,900	2,743	0	1,294	1,449	0
30 TEXAS A & M UNIVERSITY	2,697	2,411	1,964	2,697	0	1,347	127	1,223
TOTAL 1ST 30 INSTS.	178,204	166,761	165,949	178,204	13,641	46,811	102,280	15,472
31 PENNSYLVANIA STATE UNIV	2,577	2,470	2,602	2,577	11	967	410	1,189
32 U OF CAL IRVINE	2,517	2,133	1,776	2,517	0	814	1,703	0
33 RICE UNIVERSITY	2,476	2,521	2,228	2,476	1,082	594	800	0
34 UNIVERSITY OF NOTRE DAME	2,403	2,310	2,273	2,403	0	1,531	872	0
35 JOHNS HOPKINS UNIVERSITY	2,279	1,976	2,181	2,279	0	1,001	1,278	0
36 UNIVERSITY OF HAWAII	2,278	2,240	2,559	2,278	1,706	437	535	0
37 OHIO STATE UNIVERSITY	2,230	2,191	2,078	2,230	14	1,277	859	0
38 CASE WESTERN RESERVE UNIV	2,220	1,922	1,979	2,220	97	1,040	1,083	0
39 SUNY STONY BROOK	2,015	1,903	1,892	2,015	265	75	1,296	383
40 NORTHWESTERN UNIVERSITY	1,950	2,241	2,015	1,950	74	1,128	748	0
TOTAL 1ST 40 INSTS.	201,149	188,674	187,412	201,149	16,488	55,775	111,844	17,044
41 U OF CAL SANTA CRUZ	1,919	1,801	1,529	1,919	419	0	0	1,500
42 UNIV OF MASS AT AMHERST	1,902	2,052	1,815	1,902	528	846	528	0
43 RUTGERS THE STATE UNIV	1,859	2,009	1,716	1,859	0	455	1,444	0
44 UNIVERSITY OF UTAH	1,682	2,007	2,507	1,882	0	1,283	599	0
45 NEW YORK UNIVERSITY	1,818	1,907	2,193	1,818	0	382	1,436	0
46 UNIVERSITY OF ALASKA	1,734	302	1,105	1,734	5	5	825	901
47 GEORGIA INSTITUTE OF TECH	1,651	1,402	1,280	1,651	0	531	1,120	0
48 FLORIDA STATE UNIVERSITY	1,587	3,480	2,359	1,587	0	587	758	242
49 U OF CAL SANTA BARBARA	1,569	1,345	1,534	1,569	0	568	1,001	0
50 BROWN UNIVERSITY	1,554	1,462	1,819	1,554	0	486	1,068	0
TOTAL 1ST 50 INSTS.	218,664	206,461	205,969	218,664	17,440	60,896	120,643	19,687

SEE FOOTNOTES AT END OF TABLE.

TABLE B-39.
CONTINUED

FEDERALLY FINANCED PHYSICAL SCIENCE R&D EXPENDITURES
IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER
OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	PHYSICAL SCIENCES TOTAL 1975	1974	1973	PHYSICAL SCIENCES TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	OTHER
51 DUKE UNIVERSITY	1,510	1,404	2,050	1,510	0	410	1,100	0
52 UNIVERSITY OF VIRGINIA	1,469	1,414	1,290	1,469	75	696	698	0
53 UNIVERSITY OF OREGON	1,433	1,305	1,376	1,433	9	579	605	240
54 UNIV OF NC AT CHAPEL HILL	1,420	1,254	955	1,420	0	1,146	274	0
55 UNIVERSITY OF DAYTON	1,408	1,775	1,406	1,408	0	228	1,180	0
56 WASHINGTON UNIV ST LOUIS	1,324	1,324	1,240	1,324	0	338	986	0
57 UNIVERSITY OF WYOMING	1,278	1,144	1,358	1,278	0	216	1,062	0
58 BRANDEIS UNIVERSITY	1,257	1,442	1,221	1,257	0	612	645	0
59 RENSSELAER POLY INST	1,237E	1,192E	1,,76E	1,,37E	0	707E	530E	0
60 SUNY ALBANY	1,108	807	4 5	1,108	387	371	350	0
TOTAL 1ST 60 INSTS.	232,108	219,595	218,656	232,106	17,911	66,399	127,871	19,927
61 UNIV OF STHRN CALIFORNIA	1,094	714	759	1,094	0	662	432	0
62 YESHIVA UNIVERSITY	1,072	969	1,174	1,072	0	260	812	0
63 LA ST U BATON ROUGE	1,017	962	853E	1,017	0	514	503	0
64 U OF CAL RIVERSIDE	1,009	1,405	1,265	1,009	0	514	495	0
65 UNIV OF NEW HAMPSHIRE	975	768	761	975	473	102	248	152
66 WAYNE STATE UNIVERSITY	975	862	691	975	0	861	114	0
67 TEMPLE UNIVERSITY	961	915	813	961	0	270	235	456
68 UNIVERSITY OF DENVER	948	922	1,097	948	0	227	721	0
69 UNIVERSITY OF HOUSTON	932	802	627	932	0	291	641	0
70 SYRACUSE UNIVERSITY	916	838	2,174E	916	0	172	744	0
TOTAL 1ST 70 INSTS.	242,007	228,279	228,290	242,007	18,364	70,272	132,816	20,535
71 U TENNESSEE KNOXVILLE	869	668	627	869	0	398	471	0
72 ARIZONA STATE UNIVERSITY	866	831	714	866	0	512	354	0
73 COLORADO STATE UNIVERSITY	853	838	915	853	0	568	285	0
74 UNIVERSITY OF FLORIDA	832	1,177	1,248	832	0	522	310	0
75 SAN DIEGO STATE UNIV	817	156	221	817	38	111	0	673
76 U OF CAL DAVIS	811	967	846	811	0	386	425	0
77 UNIV OF NEBRASKA - LINCOLN	769	592	475	769	0	383	386	0
78 WASHINGTON STATE UNIV	719	840	860	719	413	185	121	0
79 CITY COLLEGE OF NEW YORK	700	1751	1611	700	0	225	475	0
80 VANDERBILT UNIVERSITY	699	604	670	699	0	127	572	0
TOTAL 1ST 80 INSTS.	249,942	234,551	234,455	249,942	18,830	73,069	136,215	21,208
81 CATHOLIC UNIV OF AMERICA	690	611	623	690	0	218	472	0
82 SUNY BUFFALO	672	685	638	672	0	598	74	0
83 NORTHEASTERN UNIVERSITY	664	674	601	664	0	194	470	0
84 ROCKEFELLER UNIVERSITY	664	601	517	664	0	308	356	0
85 BOSTON UNIVERSITY	652	472	277	652	52	517	83	0
86 OREGON STATE UNIVERSITY	646	597	624	646	0	568	78	0
87 UNIVERSITY OF GEORGIA	646	467	568	646	0	586	60	0
88 UNIVERSITY OF KANSAS	595	1,494	969	595	0	570	224	1
89 ILLINOIS INST OF TECH	587	521	550	587	0	256	287	44
90 STEVENS INSTITUTE OF TECH	550	619	835	550	0	90	460	0
TOTAL 1ST 90 INSTS.	256,288	241,300	240,839	256,288	18,882	77,274	138,779	21,253
91 UNIVERSITY OF DELAWARE	534	553	657	534	0	365	169	0
92 BOSTON COLLEGE	495	425	547E	495	0	149	346	0
93 UNIVERSITY OF MIAMI	491	525	660	491	0	98	204	189
94 GEORGETOWN UNIVERSITY	485	548	610	485	0	346	139	0
95 U OF TEX M D ANDERSON HOS	469	550	714	469	0	0	469	0
96 CLARKSON COL OF TECH	459	560	581	459	0	380	79	0
97 NEW MEXICO STATE UNIV	452	443	302	452	165	217	65	5
98 CUNY BROOKLYN COLLEGE	451	371	391	451	0	289	162	0
99 EMMANUEL COLLEGE	446	409	377	446	0	0	446	0
100 POLYTECHNIC INST OF N Y	438	392	432	438	0	271	139	28
TOTAL 1ST 100 INSTS.	261,008	245,326	245,654	261,008	19,047	79,489	140,997	21,475
TOTAL ALL OTHER INSTS.	23,056	24,461	24,732	23,056	477	13,232	8,682	1,065

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-40.

FEDERALLY FINANCED SOCIAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	SOCIAL SCIENCES 1975	TOTAL 1974	TOTAL 1973	SOCIAL SCIENCES TOTAL	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	OTHER
UNITED STATES TOTAL	139,785	136,172	132,471	139,785	27,061	11,933	45,083	55,008
1 UNIVERSITY OF MICHIGAN	7,544	6,378	7,048	7,544	862	880	4,981	820
2 UNIV OF WISCONSIN-MADISON	6,552	6,231	6,260	6,552	1,044	50	3,381	2,077
3 STANFORD UNIVERSITY	4,542	4,833	5,175	4,542	349	172	142	3,879
4 INDIANA UNIV NORTHWEST	3,942	4,824	5,077	3,942	0	0	3,942	0
5 UNIVERSITY OF OREGON	3,853	3,609	2,553	3,853	377	41	73	3,362
6 MICHIGAN STATE UNIVERSITY	3,802	3,508	3,080	3,802	1,273	173	1,239	1,117
7 HARVARD UNIVERSITY	3,572	3,870	4,593	3,572	858	1	125	2,588
8 FLORIDA STATE UNIVERSITY	3,374	1,779	1,719	3,374	161	30	722	2,461
9 OHIO STATE UNIVERSITY	3,220	3,243	4,064	3,220	342	216	152	2,510
10 U OF CAL BERKELEY	3,157	3,928	4,502	3,157	847	627	151	1,532
TOTAL 1ST 10 INSTS.	43,558	44,233	46,137	43,558	6,114	2,190	14,908	20,346
11 COLUMBIA UNIV MAIN DIV	3,013	2,440	2,481	3,013	593	86	2,099	235
12 UNIVERSITY OF MINNESOTA	2,639	2,654	2,591	2,639	487	364	285	1,303
13 UNIVERSITY OF DENVER	2,399	1,692	1,403	2,399	1,229	52	1,097	21
14 UNIVERSITY OF CHICAGO	2,374	2,228	2,714	2,374	274	87	851	1,162
15 UNIV OF STHRN CALIFORNIA	2,209	1,848	1,618	2,209	51	533	1,620	5
16 UNIV OF NC AT CHAPEL HILL	2,150	2,525	176	2,150	176	173	693	1,108
17 NEW YORK UNIVERSITY	1,982	1,748	1,599	1,982	305	0	55	1,622
18 PENNSYLVANIA STATE UNIV	1,932	1,334	1,809	1,932	196	0	868	872
19 CORNELL UNIVERSITY	1,928	1,525	1,588	1,928	10	87	613	1,210
20 RUTGERS THE STATE UNIV	1,856	1,639	1,753	1,856	317	144	1,187	208
TOTAL 1ST 20 INSTS.	66,040	64,030	65,471	66,040	9,756	3,716	24,276	28,292
21 YALE UNIVERSITY	1,846	1,934	1,467	1,846	677	41	43	1,085
22 BRANDEIS UNIVERSITY	1,757	1,704	1,684	1,757	1,423	5	1,456	154
23 INDIANA UNIV-BLOOMINGTON	1,720	1,440	1,350	1,720	59	304	180	977
24 GEORGE WASHINGTON UNIV	1,689	1,612	1,730	1,689	172	25	901	591
25 UNIV OF PENNSYLVANIA	1,686	3,308	2,290	1,686	591	374	603	118
26 UNIV ILLINOIS URBANA	1,675	1,602	3,289	1,675	496	15	137	1,027
27 MASS INST OF TECHNOLOGY	1,667	1,667	1,753	1,667	766	316	575	8
28 AMERICAN UNIVERSITY THE	1,613	1,402	1,511	1,613	0	42	0	1,571
29 JOHNS HOPKINS UNIVERSITY	1,581	1,775	950	1,581	55	145	1,360	23
30 COLORADO STATE UNIVERSITY	1,479	842	949	1,479	667	49	152	611
TOTAL 1ST 30 INSTS.	82,753	81,981	80,780	82,753	13,361	5,232	29,683	34,457
31 UNIV OF TEXAS AT AUSTIN	1,399	2,220	1,667	1,399	678	111	202	408
32 PURDUE UNIV ALL CAMPUSES	1,387	956	1,028	1,387	529	0	247	611
33 SYRACUSE UNIVERSITY	1,322	949	1,230	1,322	242	221	490	368
34 U OF CAL LOS ANGELES	1,146	1,256	1,312	1,146	20	479	282	365
35 UNIVERSITY OF GEORGIA	1,109	814	660	1,109	516	48	185	360
36 UNIVERSITY OF WASHINGTON	1,018	420	568	1,018	177	141	90	610
37 UNIVERSITY OF ALASKA	963	1,349	430	963	494	148	274	347
38 CARNEGIE-MELLON UNIV	951	757	702	951	510	441	0	0
39 TEMPLE UNIVERSITY	950	858	1,341	950	231	0	518	203
40 UNIVERSITY OF UTAH	901	135	427	901	56	0	207	638
TOTAL 1ST 40 INSTS.	93,899	91,282	89,600	93,899	16,994	6,824	32,176	38,267
41 SUNY BUFFALO	896	1,433	1,120	896	4	10	674	208
42 IOWA ST U OF SCI & TECH	877	489	1,011	877	434	4	420	1
43 DUKE UNIVERSITY	864	622	518	864	24	145	177	518
44 UNIVERSITY OF CONNECTICUT	832	781	707	832	115	73	331	314
45 UNIV OF KENTUCKY ALL CAM	794	3736	405	794	31	41	712	30
46 PRINCETON UNIVERSITY	775	785	917	775	210	205	350	10
47 UNIVERSITY OF ARIZONA	770	568	914	770	123	17	189	441
48 UNIVERSITY OF HOUSTON	717	42	227	717	497	220	0	0
49 UNIVERSITY OF HAWAII	684	550	816	684	102	75	61	446
50 UNIVERSITY OF COLORADO	681	1,263	1,451	681	50	71	286	234
TOTAL 1ST 50 INSTS.	101,789	98,107	97,486	101,789	18,224	7,660	35,376	40,529

SEE FOOTNOTES AT END OF TABLE.

TABLE B-40.
CONTINUED

FEDERALLY FINANCED SOCIAL SCIENCE R&D EXPENDITURES IN UNIVERSITIES AND COLLEGES IN DESCENDING ORDER OF AMOUNTS BY INSTITUTION: FISCAL YEARS 1973-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TRENDS			1975 SCIENCE FIELDS			
	SOCIAL SCIENCES 1975	SOCIAL SCIENCES 1974	TOTAL 1973	SOCIAL SCIENCES TOTAL	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	OTHER
51 BROWN UNIVERSITY	676	405	516	676	172	30	276	196
52 UNIV OF MISSOURI COLUMBIA	666	550	483	666	143	0	284	239
53 TRINITY UNIVERSITY	650E	720	518	650E	0	-	0	554E
54 UNIV OF MAINE ORONO	624	565E	643	624	236	67	160	261
55 U OF CAL IRVINE	624	335	102	624	0	428	0	196
56 UNIV OKLAHOMA	622	711	566	622	22	333	136	129
57 BRIGHAM YOUNG UNIVERSITY	615E	660	196E	615E	122E	61E	125E	307E
58 UNIV OF MASS AT AMHERST	607	774	769	607	79	29	176	327
59 GEORGIA INSTITUTE OF TECH	582	567	402	582	310	36	36	0
60 UNIVERSITY OF MIAMI	577	533	612	577	201	246	1	129
TOTAL 1ST 50 INSTS.	108,038	104,098	102,291	108,038	19,903	8,892	38,594	42,987
61 NEW MEXICO STATE UNIV	572	1,255	1,247	572	0	10	0	562
62 NORTHWESTERN UNIVERSITY	565	556	448	565	159	44	66	297
63 U OF CAL DAVIS	558	933	861	558	246	157	0	153
64 UNIVERSITY OF ARKANSAS	541	175	297	541	303	0	160	81
65 UNIVERSITY OF IOWA	519	455	489	519	14	12	12	481
66 CUNY GRADUATE DIVISION	519	801	477	519	0	59	227	233
67 U TENNESSEE KNOXVILLE	516	598	524	516	19	9	-	489
68 UNIVERSITY OF MONTANA	508	349	317E	508	1	0	381	126
69 FORDHAM UNIVERSITY	508	97	159	508	6	32	469	41
70 N C STATE UNIV AT RALEIGH	485	780	669	485	125	0	40	320
TOTAL 1ST 70 INSTS.	113,329	110,115	107,047	113,329	20,674	9,209	37,910	45,740
71 UNIV OF ILL CHICAGO CIR	478	72	4	478	74	47	254	105
72 MISSISSIPPI STATE UNIV	468	674	564	468	369	0	86	21
73 UNIV OF RHODE ISLAND	466	14	123	466	967	421	1321	1951
74 UNIVERSITY OF ROCHESTER	463	472	536	463	156	43	51	213
75 TEXAS A & M UNIVERSITY	457	387	273	457	73	44	56	315
76 VIRGINIA POLYTECHNIC INST	453	222	141	453	237	15	17	184
77 WASHINGTON STATE UNIV	446	580	724	446	1	0	184	264
78 WAYNE STATE UNIVERSITY	445	249	196	445	10	0	244	191
79 U OF CAL SANTA BARBARA	443	253	317	443	0	17	110	316
80 MARQUETTE UNIVERSITY	420	192	18	420	0	210	206	10
TOTAL 1ST 80 INSTS.	117,876	112,827	110,252	117,876	21,483	9,595	39,240	47,554
81 OREGON STATE UNIVERSITY	410	223	318	410	275	0	97	38
82 ANTIOCH COLLEGE	408I	355E	473I	408I	241	121	60I	314I
83 CASE WESTERN RESERVE UNIV	395	341	389	393	1	0	306	86
84 BOSTON COLLEGE	374	209	395E	374	42	0	0	332
85 CALIFORNIA INST OF TECH	366	320	299	366	44	96	189	37
86 TUFTS UNIVERSITY	365	228	332	365	0	325	40	0
87 VIRGINIA STATE COLLEGE	360	271	16	360	288	72	0	0
88 SUNY BINGHAMTON	358	184	421	358	204	6	25	123
89 CALIF STATE UNIV LA	352	309	11	352	42	0	0	310
90 SUNY ALBANY	349	170	613	349	1	252	14	82
TOTAL 1ST 90 INSTS.	121,611	115,731	113,020	121,611	22,574	10,456	39,977	48,604
91 AUBURN UNIVERSITY	348	364	250	348	348	0	0	0
92 UNIVERSITY OF IDAHO	347	208	248	347	203	8	130	6
93 UNIV OF MD COLLEGE PARK	344	233	384	344	84	39	109	107
94 SOUTHERN METHODIST UNIV	329	71	445	329	129	14	2	237
95 CATHOLIC UNIV OF AMERICA	329	250	112	329	0	45	189	95
96 UNIVERSITY OF VIRGINIA	327	115	92	327	0	0	154	173
97 GEORGIA STATE UNIV	326	173	277	320	292	0	27	7
98 ST LOUIS UNIV	322	256	1	322	0	0	252	70
99 SUNY STONY BROOK	316	1,090	344	316	40	136	121	19
100 WASHINGTON UNIV ST LOUIS	306	267	300	308	48	45	181	36
TOTAL 1ST 100 INSTS.	124,907	118,738	115,413	124,907	23,423	10,858	41,142	49,704
TOTAL ALL OTHER INSTS.	14,876	17,434	17,058	14,876	3,650	1,315	3,942	5,964

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-41.

TOTAL AND FEDERALLY FINANCED CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, BY FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL	529,492	666,997	1,070,727	951,873	914,844	840,461	837,420	1,018,431
ENGINEERING	71,699	95,119	126,304	132,623	87,307	57,955	90,715	118,461
PHYSICAL SCIENCES	130,700	182,678	283,811	225,268	68,223	108,868	89,483	81,171
ENVIRONMENTAL SCIENCES	(1)	(1)	(1)	(1)	96,295	26,624	24,022	35,208
MATHEMATICAL SCIENCES	22,792	31,856	55,104	38,160	24,712	20,016	23,708	25,962
LIFE SCIENCES	231,993	276,328	452,707	418,472	517,941	488,680	494,898	658,534
PSYCHOLOGY	21,720	19,734	34,425	22,036	19,007	39,566	15,606	11,530
SOCIAL SCIENCES	32,588	44,928	76,217	62,049	59,993	61,217	59,478	50,008
OTHER SCIENCES, NEC	18,000	16,354	42,159	53,265	41,366	37,535	39,510	37,557
FEDERALLY FINANCED								
TOTAL	134,439	212,397	340,447	279,316	239,193	226,743	227,780	270,275
ENGINEERING	10,946	25,043	39,432	38,263	23,439	15,751	42,283	64,092
PHYSICAL SCIENCES	29,701	67,300	95,178	63,107	18,551	24,473	20,913	19,072
ENVIRONMENTAL SCIENCES	(1)	(1)	(1)	(1)	17,827	5,873	7,023	5,880
MATHEMATICAL SCIENCES	4,052	11,469	13,676	9,536	4,341	3,022	4,291	5,161
LIFE SCEINCES	81,659	90,173	150,591	142,718	152,328	161,934	140,821	166,859
PSYCHOLOGY	2,121	4,310	10,342	4,848	3,663	5,101	2,596	2,249
SOCIAL SCIENCES	2,020	7,892	17,627	10,303	10,939	5,371	4,614	2,790
OTHER SCIENCES, NEC	3,940	6,204	13,601	10,541	8,105	5,218	5,239	4,172
OTHER SOURCES								
TOTAL	395,053	454,600	730,280	672,557	675,651	613,718	609,640	748,156
ENGINEERING	60,753	70,070	86,872	94,360	63,868	42,204	48,432	54,369
PHYSICAL SCIENCES	110,999	115,378	188,633	162,161	49,672	84,395	68,570	62,099
ENVIRONMENTAL	(1)	(1)	(1)	(1)	78,468	20,751	16,999	29,328
MATHEMATICAL SCIENCES	18,740	20,387	41,428	28,624	20,371	16,994	19,417	20,801
LIFE SCIENCES	150,334	186,155	302,116	275,754	365,613	326,746	354,077	491,675
PSYCHOLOGY	19,599	15,424	24,083	17,188	15,344	34,465	13,010	9,281
SOCIAL SCIENCES	30,568	37,036	58,590	51,746	49,054	846	54,864	47,218
OTHER SCIENCES, NEC	14,060	10,150	28,558	42,724	33,261	32,317	34,271	33,385

1 Not separately available, included in Physical sciences.

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE B-42.

TOTAL AND FEDERALLY FINANCED CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, BY FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

SOURCE AND FIELD	TOTAL			FEDERAL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
ALL SOURCES									
TOTAL	837,420	1,016,431	21.4	635,673	775,807	22.0	201,747	242,624	20.3
ENGINEERING	90,715	118,461	30.6	73,035	100,484	37.6	17,680	17,977	1.7
PHYSICAL SCIENCES	89,483	81,172	-9.3	59,665	50,506	-15.3	29,818	24,265	-18.6
ENVIRONMENTAL SCIENCES	24,022	35,208	46.6	15,287	24,370	59.4	8,735	10,838	24.1
MATHEMATICAL SCIENCES	23,708	25,962	9.5	16,385	21,164	27.6	7,123	4,798	-32.6
LIFE SCIENCES	494,658	658,524	33.1	387,013	489,655	26.5	107,885	168,879	56.5
PSYCHOLOGY	15,606	11,530	-26.1	7,819	7,955	1.7	7,787	3,575	-54.1
SOCIAL SCIENCES	59,478	50,038	-15.9	40,034	42,842	7.0	19,444	7,196	-63.0
OTHER SCIENCES, NEC	39,510	37,537	-4.9	36,235	32,831	-10.5	3,275	5,126	56.5
FEDERAL GOVERNMENT									
TOTAL	227,760	270,275	18.7	173,066	198,206	14.5	54,694	72,007	31.7
ENGINEERING	42,283	64,092	51.6	36,698	58,970	60.7	5,585	5,122	-8.3
PHYSICAL SCIENCES	20,913	19,072	-8.8	11,874	10,596	-10.8	9,039	8,476	-6.2
ENVIRONMENTAL SCIENCES	7,023	5,880	-16.3	4,889	4,146	-15.2	2,134	1,734	-18.7
MATHEMATICAL SCIENCES	4,291	5,161	20.3	3,367	4,479	33.0	924	682	-26.2
LIFE SCIENCES	140,821	166,859	18.5	108,650	112,735	3.8	32,171	54,124	68.2
PSYCHOLOGY	2,596	2,249	-13.4	1,419	1,506	6.1	1,177	743	-36.9
SOCIAL SCIENCES	4,614	2,790	-39.5	2,770	2,080	-24.9	1,844	710	-61.5
OTHER SCIENCES, NEC	5,219	4,172	-20.4	3,499	3,756	9.9	1,820	416	-77.1
OTHER SOURCES									
TOTAL	609,640	746,156	22.4	462,587	577,539	24.8	147,033	170,617	16.0
ENGINEERING	48,432	54,369	12.3	36,337	41,514	14.2	12,095	12,855	6.3
PHYSICAL SCIENCES	68,570	62,099	-9.4	47,791	46,210	-3.3	20,779	15,789	-24.0
ENVIRONMENTAL SCIENCES	16,999	29,328	72.5	10,398	20,224	94.5	6,601	9,104	37.9
MATHEMATICAL SCIENCES	19,417	20,801	7.1	12,218	16,885	38.2	6,199	4,116	-33.6
LIFE SCIENCES	394,077	491,675	38.9	278,363	376,901	35.4	73,714	114,755	51.6
PSYCHOLOGY	13,010	9,281	-28.7	6,400	6,449	.8	6,610	2,832	-57.2
SOCIAL SCIENCES	54,864	47,216	-13.9	37,204	40,762	9.6	17,660	6,454	-63.5
OTHER SCIENCES, NEC	34,271	33,385	-2.6	32,816	28,675	-12.6	1,455	4,710	223.7

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-43.

TOTAL AND FEDERALLY FINANCED CAPITAL EXPENDITURES IN SECTORAL GRANTING INSTITUTIONS FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, BY FIELD OF SCIENCE, AND CONTROL: FISCAL YEARS 1974-75

(DOLLARS IN THOUSANDS)

SOURCE AND FIELD	TOTAL			CONTROL					
				PUBLIC			PRIVATE		
	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75	1974	1975	% CHANGE 1974-75
ALL SOURCES									
TOTAL	754,868	896,400	18.8	563,791	666,596	18.2	191,077	229,804	20.3
ENGINEERING	58,666	62,423	6.4	41,399	45,845	10.7	17,267	17,588	1.9
PHYSICAL SCIENCES	82,805	69,649	-15.9	54,971	47,072	-14.4	27,834	22,356	-19.7
ENVIRONMENTAL SCIENCES	21,600	26,642	23.3	13,278	17,748	33.7	8,322	8,894	6.9
MATHEMATICAL SCIENCES	21,540	22,255	3.3	15,251	16,062	10.4	6,289	6,172	-33.7
LIFE SCIENCES	477,108	635,375	33.2	374,795	472,874	26.2	102,313	162,501	58.8
PSYCHOLOGY	14,158	10,308	-27.9	6,962	6,912	-.5	7,209	3,396	-54.9
SOCIAL SCIENCES	5,229	42,774	-9.8	34,295	36,032	5.1	19,030	6,742	-64.6
OTHER SCIENCES, NEC	25,626	26,104	1.9	22,853	22,049	-3.6	2,773	4,080	47.3
FEDERAL GOVERNMENT									
TOTAL	192,886	212,510	10.2	138,618	141,778	2.3	54,268	70,732	30.3
ENGINEERING	11,698	13,194	10.9	6,357	8,047	27.2	5,341	5,107	-7.6
PHYSICAL SCIENCES	20,107	18,342	-8.5	11,252	10,116	-10.1	8,855	8,279	-6.5
ENVIRONMENTAL SCIENCES	6,647	5,648	-15.1	4,535	3,966	-12.5	2,112	1,680	-20.5
MATHEMATICAL SCIENCES	3,966	4,248	7.1	3,055	3,652	19.5	910	594	-34.7
LIFE SCIENCES	138,828	164,842	18.4	108,782	121,593	4.8	32,048	53,200	66.0
PSYCHOLOGY	2,534	2,040	-7.8	1,480	1,289	.7	2,154	707	-36.7
SOCIAL SCIENCES	3,919	2,192	-44.1	2,088	1,527	-26.9	1,831	664	-63.7
OTHER SCIENCES, NEC	4,987	1,893	-62.0	3,168	1,424	-5.2	1,819	701	-7.0
OTHER SOURCES									
TOTAL	561,942	683,890	21.7	425,173	524,768	23.4	136,769	159,102	16.3
ENGINEERING	46,768	50,229	7.4	35,042	37,758	7.8	11,726	12,481	6.4
PHYSICAL SCIENCES	62,698	51,238	-18.2	43,719	36,961	-15.5	18,979	14,277	-24.8
ENVIRONMENTAL SCIENCES	14,953	20,994	40.4	8,743	13,782	57.6	6,210	7,214	16.2
MATHEMATICAL SCIENCES	17,574	17,982	2.3	12,493	14,494	16.2	5,379	3,488	-33.5
LIFE SCIENCES	338,280	470,482	39.1	268,023	361,281	34.8	70,257	109,201	55.4
PSYCHOLOGY	11,624	8,112	-30.2	5,509	5,523	-.8	6,055	2,589	-57.2
SOCIAL SCIENCES	49,466	40,582	-17.9	32,207	34,505	7.1	17,190	6,078	-64.7
OTHER SCIENCES, NEC	20,639	24,252	17.5	19,665	20,507	4.3	974	3,684	288.2

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-44.

GEOGRAPHIC DISTRIBUTION OF TOTAL CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION BY FIELD OF SCIENCE: FY 1975

(DOLLARS IN THOUSANDS)

DIVISION AND STATE	TOTAL	FACILITIES ENGINEERING	FIELD OF SCIENCE: PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	1,018,431	118,461	81,171	25,208	25,962	630,534	11,530	50,000	37,554
NEW ENGLAND	48,469	7,630	3,711	2,028	446	27,811	1,749	831	263
CONNECTICUT	18,002	590	1,096	119	154	14,383	1,459	183	20
MAINE	220	68	48	81	0	59	3	3	0
MASSACHUSETTS	26,383	6,838	2,298	1,342	266	10,790	197	401	249
NEW HAMPSHIRE	2,692	56	78	429	0	1,876	6	222	15
RHODE ISLAND	1,021	120	175	55	26	563	56	22	4
VERMONT	151	0	16	7	0	120	8	0	0
MIDDLE ATLANTIC	265,414	15,252	13,329	1,886	6,795	211,176	3,037	4,453	4,007
NEW JERSEY	33,513	1,401	3,057	474	375	20,680	942	601	383
NEW YORK	165,954	11,242	6,803	1,361	2,765	130,228	1,268	2,493	3,542
PENNSYLVANIA	66,447	2,549	6,442	53	3,655	48,270	827	2,509	142
EAST NORTH CENTRAL	156,447	20,460	14,542	6,393	2,181	84,326	1,886	9,385	17,274
ILLINOIS	46,138	4,596	2,971	4,224	647	31,282	451	597	370
INDIANA	15,595	4,155	4,059	245	147	4,830	657	1,213	189
MICHIGAN	27,191	7,297	3,316	611	561	11,263	506	2,646	55
OHIO	23,508	1,410	2,647	332	436	14,363	252	3,698	370
WISCONSIN	44,015	2,202	1,349	981	410	22,578	20	785	15,690
WEST NORTH CENTRAL	82,354	4,396	2,671	2,825	306	66,200	379	3,682	695
IOWA	25,004	1,882	293	570	94	19,266	42	2,855	46
KANSAS	9,709	853	386	390	77	6,921	210	778	94
MINNESOTA	15,431	0	516	1,718	42	12,635	52	113	354
MISSOURI	21,130	1,178	1,406	11	112	16,253	58	98	14
NEBRASKA	10,012	0	13	0	0	9,997	1	1	0
NORTH DAKOTA	843	386	19	121	8	294	8	3	4
SOUTH DAKOTA	1,225	97	38	9	22	834	8	34	183
SOUTH ATLANTIC	145,509	54,707	11,017	3,615	2,983	60,187	788	10,160	2,052
DELAWARE	674	132	59	67	0	189	20	49	158
DISTRICT OF COLUMBIA	2,488	232	227	47	181	1,515	69	146	71
FLORIDA	28,223	831	1,087	454	984	24,216	175	421	58
GEORGIA	11,242	765	1,129	432	210	6,750	86	1,818	52
MARYLAND	63,142	51,188	3,095	1,461	1,406	5,678	61	232	21
NORTH CAROLINA	17,093	406	3,527	565	126	8,628	85	3,278	1,276
SOUTH CAROLINA	9,057	818	353	153	41	7,526	61	104	1
VIRGINIA	12,469	302	1,710	428	34	5,249	225	4,108	413
WEST VIRGINIA	526	33	30	11	1	441	6	4	0
EAST SOUTH CENTRAL	68,524	2,069	1,948	745	545	52,135	254	2,061	8,767
ALABAMA	22,016	266	208	125	86	21,469	73	749	40
KENTUCKY	21,788	861	1,366	548	262	10,278	79	95	3,649
MISSISSIPPI	4,808	184	113	27	1	3,259	12	1,260	17
TENNESSEE	18,912	758	261	45	196	17,134	90	57	61
WEST SOUTH CENTRAL	99,001	2,859	8,568	796	11,211	62,549	367	10,584	2,072
ARKANSAS	4,751	387	148	4	4	4,172	21	14	1
LOUISIANA	13,795	493	3,561	343	160	8,797	93	94	264
OKLAHOMA	1,138	229	108	22	13	550	2	13	201
TEXAS	79,317	1,745	4,751	427	11,034	49,040	251	10,461	1,606
MOUNTAIN	43,219	3,853	9,425	1,660	474	22,491	558	3,846	912
ARIZONA	10,096	845	6,788	212	18	1,348	177	243	465
COLORADO	9,988	1,011	666	154	56	5,426	42	2,507	126
IDAHO	1,341	213	50	17	3	744	5	73	236
MONTANA	1,703	106	170	88	28	1,035	46	209	1
NEVADA	1,084	15	88	149	1	1,384	20	20	3
NEW MEXICO	7,331	572	315	288	94	5,976	11	65	0
UTAH	10,363	1,011	1,181	583	314	6,394	198	601	81
WYOMING	633	80	167	174	0	184	0	28	0
PACIFIC	107,266	6,958	10,857	11,130	996	69,080	2,522	4,267	1,456
ALASKA	1,166	1	194	810	0	58	0	93	0
CALIFORNIA	78,610	2,469	7,215	9,078	536	49,460	995	1,592	265
HAWAII	4,999	82	2,102	0	0	1,015	0	746	1,054
OREGON	4,894	575	348	650	25	4,809	1,284	66	137
WASHINGTON	23,597	2,831	998	592	435	10,726	243	1,770	0
U.S. TERRITORIES	1,228	282	128	128	25	527	10	39	39

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-45.

CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	1,018,431	110,461	81,171	35,208	25,962	658,534	11,530	50,008	37,557
1 CUNY MT SINAI SCH OF MED	71,420	0	0	0	0	71,420	0	0	0
2 US NAVAL ACADEMY	50,807	50,807	0	0	0	0	0	0	0
3 HAHNEMAN MEDICAL COLLEGE	33,581	0	0	0	0	33,581	0	0	0
4 UNIV OF WISCONSIN-MADISON	28,412	1,965	255	450	41	20,333	8	348	5,012
5 COL OF MED & DENT OF N J	25,013	0	0	0	0	25,013	0	0	0
6 SUNY STONY BROOK	22,065	0	3,300	0	65	18,700	0	0	0
7 U TEX MED SCH HOUSTON	19,254	0	0	0	0	19,254	0	0	0
8 COLUMBIA UNIV MAIN DIV	19,186	7	175	805	0	16,751	0	28	1,422
9 U OF CAL SAN FRANCISCO	18,605	0	598	0	0	17,674	533	0	0
10 WASHINGTON STATE UNIV	16,381	2,446	776	516	94	11,590	153	804	0
TOTAL 1ST 10 INSTS.	304,926	55,225	5,106	1,771	200	234,316	694	1,180	6,434
11 UNIV OF TEXAS AT AUSTIN	15,345	831	3,005	264	39	846	53	8,448	1,259
12 UNIVERSITY OF MICHIGAN	14,947	3,215	2,631	343	438	5,368	410	2,542	0
13 UNIVERSITY OF MINNESOTA	13,372	0	320	0	0	12,563	41	99	349
14 U OF CAL LOS ANGELES	12,542	0	0	0	0	12,542	0	0	0
15 TEMPLE UNIVERSITY	12,538	551	194	0	2,391	7,285	563	1,354	0
16 U OF ILL MEDICAL CENTER	12,528	0	28	0	0	12,500	0	0	0
17 UNIV ILLINOIS URBANA	12,488	3,909	920	407	222	5,784	252	302	692
18 U TEX HLTH SCI CR SAN ANT	12,041	0	0	0	0	12,041	0	0	0
19 IOWA ST U OF SCI & TECH	11,716	124	238	12	35	8,401	23	2,848	33
20 UNIVERSITY OF IOWA	11,592	222	0	263	6	10,811	0	0	0
TOTAL 1ST 20 INSTS.	434,035	64,067	13,042	3,420	3,531	322,457	2,038	16,773	8,707
21 SUNY BUFFALO	10,949	6,775	42	22	21	2,057	3	16	11
22 U TEX HLTH SCI CTR DALLAS	10,920	0	0	0	10,920	0	0	0	0
23 UNIVERSITY OF CONNECTICUT	10,606	282	113	64	61	9,696	323	67	0
24 UNIV ALABAMA BIRMINGHAM	10,419	24	73	17	81	10,144	50	10	20
25 CORNELL UNIVERSITY	10,062	739	840	43	0	8,429	19	22	0
26 UNIV OF KENTUCKY ALL CAM	10,040	150	540	0	0	8,711	4	0	635
27 U TENN MED UNITS MEMPHIS	10,005	0	0	0	0	10,005	0	0	0
28 UNIVERSITY OF FLORIDA	9,807	684	649	110	361	7,973	83	20	0
29 UNIVERSITY OF LOUISVILLE	9,367	77	51	0	4	4,168	8	39	8,014
30 LA ST U BATON ROUGE	9,207	134	3,168	103	9	5,668	12	28	0
TOTAL 1ST 30 INSTS.	535,617	74,879	18,538	3,820	14,790	386,508	2,520	16,975	17,387
31 UNIV OF SOUTH FLORIDA	8,990	74	95	52	3	8,663	26	77	0
32 ROCKEFELLER UNIVERSITY	8,011	0	93	0	0	7,812	106	0	0
33 UNIV OF SOUTHERN CALIFORNIA	7,349	1,119	251	219	140	5,376	54	590	0
34 MASS INST OF TECHNOLOGY	7,040	6,105	207	227	48	1,059	0	0	94
35 U OF CAL SANTA CRUZ	7,791	0	0	7,774	17	0	0	0	0
36 WASHINGTON UNIV ST LOUIS	7,122	222	176	2	0	6,664	55	13	0
37 ARIZONA STATE UNIVERSITY	6,954	243	6,126	7	2	425	138	201	0
38 YALE UNIVERSITY	6,931	302	916	54	59	4,374	1,115	111	0
39 ST LOUIS UNIV	6,853	0	65	0	0	6,788	0	0	0
40 COLORADO STATE UNIVERSITY	6,841	443	104	100	3	3,737	2	2,434	16
TOTAL 1ST 40 INSTS.	610,799	83,279	26,673	12,255	15,262	431,216	4,016	20,401	17,497
41 UNIVERSITY OF WASHINGTON	6,801	383	180	64	303	4,992	65	534	0
42 VIRGINIA COMMONWLTH UNIV	6,534	0	0	0	0	2,447	0	4,087	0
43 UNIVERSITY OF NEW MEXICO	6,485	300	198	67	1	5,847	24	48	0
44 UNIVERSITY OF MIAMI	6,412	72	37	133	35	6,012	24	98	0
45 INDIANA UNIVERSITY-PURDUE	6,312	2,620	1,296	3	5	2,364	5	14	2
46 MED UNIV OF SO CAROLINA	6,235	0	0	0	0	6,235	0	0	0
47 UNIVERSITY OF KANSAS	6,119	454	106	134	41	4,975	195	104	0
48 UNIV OF PENNSYLVANIA	6,073	128	1,273	0	0	3,957	90	615	0
49 VANDERBILT UNIVERSITY	5,996	0	0	0	120	5,876	0	0	0
50 OHIO STATE UNIVERSITY	5,514	28	200	70	105	3,793	36	1,006	276
TOTAL 1ST 50 INSTS.	673,080	87,355	29,963	12,876	15,875	477,714	4,452	27,067	17,775

SEE FOOTNOTES AT END OF TABLE.

TABLE B-45.
CONTINUED

CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 LEHIGH UNIVERSITY	5,492	189	5,159	29	24	36	0	16	38
52 UNIVERSITY OF ROCHESTER	5,446	919	575	0	52	1,813	253	1,787	47
53 UNIV OF NC AT CHAPEL HILL	5,270	0	119	103	23	3,911	11	999	104
54 STANFORD UNIVERSITY	5,151	1,041	1,267	250	61	2,431	34	44	3
55 TOWSON STATE COLLEGE	5,104	0	1,276	1,276	1,276	1,276	0	0	0
56 UNIVERSITY OF HAWAII	4,999	82	2,102	0	0	1,015	0	746	1,054
57 WOODS HOLE OCNGRPHIC INST	4,976	176	0	4,798	0	0	0	0	0
58 BRIGHAM YOUNG UNIVERSITY	4,889C	485E	717E	232E	175E	2,583E	164I	485E	48E
59 NC AG & TECH STATE UNIV	4,877	0	2,750	0	0	0	0	2,127	0
60 U OF TEX M D ANDERSON HOS	4,874	0	98	0	33	4,743	0	0	0
TOTAL 1ST 60 INSTS.	724,157	90,249	44,026	19,504	17,539	495,522	4,917	33,271	19,069
61 CHICAGO COL OF OSTEO MED	4,785	0	0	0	0	4,785	0	0	0
62 CALIFORNIA INST OF TECH	4,740	459	1,914	660	50	1,325	0	312	0
63 MICHIGAN TECH UNIVERSITY	4,739	4,702	7	7	1	21	0	1	0
64 WELLESLEY COLLEGE	4,679	0	145E	16E	18E	4,135E	73	290E	0
65 TEXAS TECH UNIVERSITY	4,515	367	156	21	0	2,049	76	1,846	0
66 WAYNE STATE UNIVERSITY	4,392	283	247	12	10	3,605	28	7	0
67 UNIVERSITY OF CHICAGO	4,357	0	573	0	171	3,611	2	0	0
68 WRIGHT STATE UNIV	4,355	19	45	59	62	4,051	54	8	57
69 UNIV OF MISSOURI COLUMBIA	4,334	5	719	0	0	3,610	0	0	0
70 NEW YORK UNIVERSITY	4,322	380	233	0	385	2,796	256	270	0
TOTAL 1ST 70 INSTS.	769,375	96,464	48,065	20,361	18,236	525,710	5,408	36,005	19,126
71 UNIVERSITY OF CINCINNATI	4,042	118	143	38	5	3,691	12	31	4
72 EMORY UNIVERSITY	4,008	0	465	0	0	2,269	0	1,274	0
73 JOHNS HOPKINS UNIVERSITY	3,983	132	902	166	5	2,664	10	104	0
74 UNIVERSITY OF GEORGIA	3,982	0	86	307	61	3,125	32	371	0
75 THE UNIVERSITY OF AKRON	3,947	77	1,506	13	2	48	38	2,263	0
76 UNIV OF NEBRASKA - LNCLN	3,935	0	2	0	0	3,933	0	0	0
77 PURDUE UNIV ALL CAMPUSES	3,802	1,360	593	74	22	1,482	42	110	119
78 PRINCETON UNIVERSITY	3,623	249	2,053	392	76	649	108	96	0
79 U OF WIS MILWAUKEE	3,551	43	685	427	29	162	0	68	2,137
80 GOVERNORS STATE UNIV	3,500	0	0	3,500	0	0	0	0	0
TOTAL 1ST 80 INSTS.	807,748	98,443	54,500	25,278	18,436	543,733	5,650	40,322	21,386
81 AUBURN UNIVERSITY	3,461	104	0	0	0	3,357	0	0	0
82 BAYLOR COL OF DENTISTRY	3,384	0	0	0	0	3,384	0	0	0
83 U OF NEB MED C AT OHAMA	3,377	0	0	0	0	3,377	0	0	0
84 U OF CAL DAVIS	3,347	0	1,000	0	0	2,347	0	0	0
85 BOSTON UNIVERSITY	3,326	13	132	0	4	3,020	18	4	135
86 UNIVERSITY OF PITTSBURGH	3,286	122	638	1	154	2,050	50	264	7
87 U OF CAL SAN DIEGO	3,264	0	0	0	0	3,264	0	0	0
88 UNIV ALABAMA	3,215	98	82	7	5	2,986	13	4	20
89 UNIV OF SOUTH ALABAMA	3,212	0	0	0	0	2,508	0	704	0
90 RUTGERS THE STATE UNIV	3,105	168	708	80	283	694	750	99	323
TOTAL 1ST 90 INSTS.	840,725	98,948	57,060	25,366	18,882	570,720	6,481	41,397	21,871
91 UNIVERSITY OF VIRGINIA	2,839	225	268	101	5	2,184	35	18	3
92 INDIANA UNIV-BLOOMINGTON	2,826	0	1,831	65	65	516	158	138	35
93 BAYLOR COLLEGE OF MED	2,811	0	0	0	0	2,811	0	0	0
94 SOUTHERN ILLINOIS UNIV	2,808	21	0	75	0	2,237	0	425	50
95 UNIVERSITY OF ARIZONA	2,781	467	594	160	15	1,003	34	24	464
96 UTAH STATE UNIVERSITY	2,754	66	10	24	11	2,585	8	17	33
97 DUKE UNIVERSITY	2,730	6.	.43	59	7	2,415	24	21	0
98 UNIVERSITY OF UTAH	2,720	460	454	327	128	1,226	26	99	0
99 CREIGHTON UNIVERSITY	2,692	0	6	0	0	2,686	0	0	0
100 OREGON STATE UNIVERSITY	2,665	501	454	286	4	1,316	3	21	78
TOTAL 1ST 100 INSTS.	868,353	100,769	60,920	26,765	19,117	589,699	6,769	42,160	22,534
TOTAL ALL OTHER INSTS.	150,076	17,692	20,651	8,423	6,845	68,835	4,761	7,848	15,023

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-46.
CONTINUED

FEDERALLY FINANCED CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
51 BAYLOR COLLEGE OF MED	1,215	0	0	0	0	1,215	0	0	0
52 U OF ILL MEDICAL CENTER	1,201	0	2	0	0	1,199	0	0	0
53 UNIVERSITY OF MINNESOTA	1,193	0	0	0	0	1,193	0	0	0
54 UNIV OF MASS AT AMHERST	1,081	43	573	149	12	249	33	15	7
55 OREGON STATE UNIVERSITY	1,075	60	45	545	1	361	0	8	55
56 U OF MO K C	1,039	0	0	0	0	1,039	0	0	0
57 PRINCETON UNIVERSITY	1,014	118	367	158	38	314	19	0	0
58 CHICAGO COL OF OSTEO MED	978	0	0	0	0	978	0	0	0
59 UNIV ALABAMA HUNTSVILLE	972	4	7	0	0	960	1	0	0
60 NORTHWESTERN UNIVERSITY	966	105	106	13	0	517	17	9	199
TOTAL 1ST 60 INSTS.	229,976	59,807	13,243	3,037	3,400	140,603	1,256	1,529	3,099
61 COLORADO STATE UNIVERSITY	909	328	67	97	2	393	2	20	0
62 WAYNE STATE UNIVERSITY	909	30	140	0	0	731	1	1	0
63 UNIVERSITY OF ARIZONA	863	91	216	25	0	443	33	4	51
64 UNIV OF MD COLLEGE PARK	853	19	512	1	97	156	50	3	15
65 U TEX GALVESTON MED BRAN	842	0	0	0	0	842	0	0	0
66 YESHIVA UNIVERSITY	783	0	17	0	0	766	0	0	0
67 UNIV OF MD BALTIMORE	753	0	0	0	0	752	0	1	0
68 WOODS HOLE OCNGRPHIC INST	750	164	0	586	0	0	0	0	0
69 UNIVERSITY OF GEORGIA	748	0	29	13	5	686	13	2	0
70 CARNEGIE-MELLON UNIV	734	351	119	0	221	26	9	8	0
TOTAL 1ST 70 INSTS.	234,120	60,790	14,347	3,761	3,725	145,400	1,364	1,368	3,165
71 UNIVERSITY OF CINCINNATI	714	30	48	7	10	624	1	2	2
72 ALBANY MED COL OF UNION U	708	0	0	0	0	708	0	0	0
73 UNIVERSITY OF IDAHO	699	36	0	3	0	441	0	24	195
74 UNIVERSITY OF ALASKA	692	0	132	494	0	29	0	37	0
75 BOSTON UNIVERSITY	634	0	71	0	4	553	5	1	0
76 LA ST U BATON ROUGE	630	17	128	86	4	381	7	7	0
77 KUTZTOWN STATE COLLEGE	630	0	5	5	600	5	5	5	5
78 UNIV OF MISSISSIPPI	626	48	33	7	0	528	10	0	0
79 SUNY DOWNSTATE MED CTR	623	0	0	0	0	623	0	0	0
80 KANSAS ST UNIVERSITY	615	22	65	21	31	410	8	21	37
TOTAL 1ST 80 INSTS.	240,691	60,943	14,829	4,384	4,364	149,702	1,400	1,665	3,404
81 U OF ARKANSAS MED CENTER	615	0	0	0	0	615	0	0	0
82 U OF CAL SAN FRANCISCO	598	0	598	0	0	0	0	0	0
83 WAKE FOREST UNIVERSITY	596	0	2	0	0	592	2	0	0
84 TEMPLE UNIVERSITY	595	11	31	0	0	508	40	5	0
85 UNIVERSITY OF MONTANA	577	0	92	67	20	236	41	101	0
86 GEORGIA INSTITUTE OF TECH	563	253	122	51	94	35	1	5	0
87 VIRGINIA COMMONWLTH UNIV	556	0	0	0	0	556	0	0	0
88 DARTMOUTH COLLEGE	551	0	0	0	0	551	0	0	0
89 TUSKEGEE INSTITUTE	543	0	0	0	0	543	0	0	0
90 UNIVERSITY OF IOWA	537	0	0	0	0	537	0	0	0
TOTAL 1ST 90 INSTS.	246,422	61,209	15,674	4,502	4,478	153,895	1,484	1,776	3,404
91 MASS INST OF TECHNOLOGY	500	0	0	0	0	500	0	0	0
92 N C STATE UNIV AT RALEIGH	500	141	41	9	19	320	0	0	0
93 TULANE UNIVERSITY	494	38	14	0	10	416	16	0	0
94 NEW YORK UNIVERSITY	492	0	15	0	15	421	26	15	0
95 BROWN UNIVERSITY	487	64	91	7	16	257	42	10	0
96 PENNSYLVANIA STATE UNIV	487	95	205	0	4	170	0	13	0
97 INDIANA UNIVERSITY-PURDUE	479	3	7	0	0	469	0	0	0
98 UNIV OF NORTH DAKOTA	472	336	2	119	0	11	0	0	4
99 RUTGERS THE STATE UNIV	469	39	111	22	33	226	30	8	0
100 ALBANY STATE COLLEGE	450	0	177	17	39	77	40	100	0
TOTAL 1ST 100 INSTS.	251,252	61,895	16,337	4,676	4,614	156,762	1,638	1,922	3,408
TOTAL ALL OTHER INSTS.	19,023	2,197	2,735	1,204	547	10,097	611	868	764

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-46.

FEDERALLY FINANCED CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION AND FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	270,275	64,092	19,072	3,880	5,161	166,859	2,249	2,730	4,172
1 US NAVAL ACADEMY	50,807	50,807	0	0	0	0	0	0	0
2 CUNY MT SINAI SCH OF MED	19,865	0	0	0	0	19,865	0	0	0
3 HAHNEMAN MEDICAL COLLEGE	16,782	0	0	0	0	16,782	0	0	0
4 UNIV OF SOUTH FLORIDA	5,683	4	42	42	0	5,579	19	0	0
5 UNIV OF WISCONSIN-MADISON	5,324	0	27	197	0	5,052	5	5	38
6 U OF CAL LOS ANGELES	5,018	0	0	0	0	5,018	0	0	0
7 UNIVERSITY OF CONNECTICUT	5,004	35	54	17	5	4,840	17	36	0
8 COL OF MED & DENT OF N J	5,000	0	0	0	0	5,000	0	0	0
9 IOWA ST U OF SCI & TECH	4,798	81	53	3	8	4,639	8	16	10
10 UNIV ILLINOIS URBANA	4,312	2,419	501	174	193	755	64	3	203
TOTAL 1ST 10 INSTS.	122,593	53,323	677	433	206	67,530	113	60	251
11 UNIV ALABAMA BIRMINGHAM	4,207	3	0	4	0	4,198	0	0	0
12 WASHINGTON STATE UNIV	4,100	745	719	194	85	1,841	110	446	0
13 U TEX MED SCH HOUSTON	3,918	0	0	0	0	3,918	0	0	0
14 U TEX HLTH SCI CR SAN ANT	3,863	0	0	0	0	3,863	0	0	0
15 YALE UNIVERSITY	3,059	110	687	36	1	2,716	88	21	0
16 STANFORD UNIVERSITY	3,487	440	997	219	77	1,689	29	30	0
17 U OF TEX M D ANDERSON HOS	3,080	0	37	0	26	3,017	0	0	0
18 UNIV OF NC AT CHAPEL HILL	3,025	0	94	105	2	2,549	11	160	104
19 UNIVERSITY OF NEW MEXICO	3,002	55	24	9	0	2,888	10	16	0
20 ST LOUIS UNIV	3,000	0	56	0	0	2,944	0	0	0
TOTAL 1ST 20 INSTS.	157,932	54,684	3,294	958	397	97,152	361	733	355
21 CALIFORNIA INST OF TECH	2,880	283	1,660	186	0	407	0	244	0
22 UNIVERSITY OF MICHIGAN	2,770	234	122	100	0	2,070	73	150	0
23 CORNELL UNIVERSITY	2,605	625	765	7	0	1,185	18	5	0
24 U TEX HLTH SCI CTR DALLAS	2,577	0	0	0	2,577	0	0	0	0
25 UNIV OF STHRN CALIFORNIA	2,487	921	213	134	0	1,141	50	28	0
26 CREIGHTON UNIVERSITY	2,470	0	0	0	0	2,470	0	0	0
27 ROCKEFELLER UNIVERSITY	2,468	0	90	0	0	2,299	79	0	0
28 UNIV OF PENNSYLVANIA	2,466	119	447	0	0	1,824	51	27	0
29 WASHINGTON UNIV ST LOUIS	2,286	143	128	0	0	1,947	55	13	0
30 SUNY BUFFALO	2,128	39	41	2	23	2,005	2	15	1
TOTAL 1ST 30 INSTS.	183,071	57,168	6,758	1,367	2,997	112,501	689	1,215	356
31 UNIVERSITY OF COLORADO	1,981	32	475	39	7	1,310	8	0	110
32 UNIVERSITY OF FLORIDA	1,931	492	125	21	0	1,574	16	3	0
33 U OF WIS PARKSIDE	1,929	1	0	0	52	0	0	4	1,872
34 JOHNS HOPKINS UNIVERSITY	1,910	51	629	95	2	1,100	3	30	0
35 DUKE UNIVERSITY	1,882	23	102	52	6	1,677	21	1	0
36 MICHIGAN STATE UNIVERSITY	1,854	12	271	175	13	1,328	34	3	10
37 UNIVERSITY OF VIRGINIA	1,819	25	131	44	0	1,598	17	4	0
38 PURDUE UNIV ALL CAMPUSES	1,771	610	425	30	1	683	12	9	1
39 INDIANA UNIV-BLOOMINGTON	1,603	0	1,168	26	33	266	83	25	2
40 UNIV OF TEXAS AT AUSTIN	1,574	220	584	46	18	236	34	13	423
TOTAL 1ST 40 INSTS.	201,325	58,234	10,668	1,913	3,129	122,283	917	1,307	2,774
41 UNIVERSITY OF ROCHESTER	1,567	155	435	0	11	905	28	1	32
42 U OF NEB MED C AT OHAMA	1,558	0	0	0	0	1,558	0	0	0
43 UNIVERSITY OF UTAH	1,456	181	123	142	123	800	26	61	0
44 MED UNIV OF SO CAROLINA	1,450	0	0	0	0	1,450	0	0	0
45 OHIO STATE UNIVERSITY	1,393	0	0	0	0	1,393	0	0	0
46 CASE WESTERN RESERVE UNIV	1,324	499	184	25	0	607	2	7	0
47 UNIVERSITY OF KANSAS	1,309	77	57	9	0	997	158	11	0
48 UNIVERSITY OF MIAMI	1,309	56	28	27	26	1,078	18	76	0
49 BRIGHAM YOUNG UNIVERSITY	1,290E	198E	213E	56E	24E	762E	18E	32E	25E
50 UNIVERSITY OF PITTSBURGH	1,261	17	435	0	36	745	19	2	7
TOTAL 1ST 50 INSTS.	215,242	59,477	12,145	2,172	3,349	132,578	1,186	1,497	2,838

SEE FOOTNOTES AT END OF TABLE.

TABLE B-47.

R&D EXPENDITURES IN UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY CHARACTER OF WORK, AND FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

CHARACTER AND FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL	629,207	629,502	718,930	736,847	763,563	816,923	865,098	986,736
CHARACTER OF WORK:								
BASIC RESEARCH	191,027	226,547	275,595	268,732	250,167	296,492	299,813	307,474
APPLIED RESEARCH	201,800	207,012	231,207	215,587	225,452	226,376	267,145	346,567
DEVELOPMENT	236,380	195,943	212,128	252,528	287,944	294,055	298,140	332,695
FIELD OF SCIENCE:								
ENGINEERING(TOTAL)	154,704	150,522	178,945	189,060	198,070	251,539	260,958	278,116
PHYSICAL SCIENCES(TOTAL)	362,352	368,485	410,362	428,189	431,864	425,107	456,647	533,101
ASTRONOMY	24,599	20,114	27,330	19,765	28,473	28,055	29,944	31,153
CHEMISTRY	59,458	51,941	61,718	71,229	75,395	73,114	77,742	84,862
PHYSICS	264,632	285,306	306,294	317,549	309,266	318,002	345,401	406,086
OTHER PHYSICAL SCIENCES, NEC.	13,633	11,124	15,020	19,646	18,730	5,936	3,560	11,000
ENVIRONMENTAL SCIENCES(TOTAL)	28,310	31,173	27,875	26,970	37,186	40,647	44,069	56,958
MATHEMATICAL SCIENCES(TOTAL)	39,850	40,019	37,147	38,213	41,738	53,178	53,517	61,595
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	NA	NA	NA	NA	NA	14,744	16,002	17,659
COMPUTER SCIENCES	NA	NA	NA	NA	NA	38,434	37,515	43,936
LIFE SCIENCES(TOTAL)	37,504	32,136	32,602	34,176	36,346	33,964	36,296	43,531
BIOLOGICAL (INCLUDES AGRICULTURAL SCIENCES)	28,528	25,150	26,352	26,804	29,204	24,379	27,245	32,908
MEDICAL SCIENCES	8,976	6,986	5,634	6,753	3,707	3,312	4,291	4,963
OTHER LIFE SCIENCES, NEC	NA	NA	616	619	3,435	6,273	4,760	5,660
PSYCHOLOGY(TOTAL)	4,776	4,195	5,661	1,506	1,447	898	850	306
SOCIAL SCIENCES(TOTAL)	1,522	2,815	8,945	5,059	8,686	169	330	795
ECONOMICS	NA	NA	149	20	NA	0	14	795
POLITICAL SCIENCE	NA	NA	336	220	91	0	0	0
SOCIOLOGY	NA	NA	604	102	55	169	316	0
OTHER SOCIAL SCIENCES, NEC	1,522	2,815	7,856	4,717	8,540	0	0	0
OTHER SCIENCES, NEC. (TOTAL)	189	157	17,393	13,674	8,226	11,421	12,431	12,314

NOTE: NA - not available.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-48. FEDERALLY FINANCED R&D EXPENDITURES IN UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY CHARACTER OF WORK, AND FIELD OF SCIENCE FOR SELECTED FISCAL YEARS: 1964-75

(DOLLARS IN THOUSANDS)

CHARACTER AND FIELD	1964	1966	1968	1970	1972	1973	1974	1975
TOTAL	629,166	629,409	715,346	734,131	758,331	812,854	861,716	982,698
CHARACTER OF WORK:								
BASIC RESEARCH	190,986	226,454	273,399	267,084	247,977	294,504	297,990	306,505
APPLIED RESEARCH	201,800	207,012	230,275	214,925	223,924	225,489	266,529	345,381
DEVELOPMENT	236,380	195,943	211,672	252,122	286,430	292,861	297,197	330,812
FIELD OF SCIENCE:								
ENGINEERING(TOTAL)	154,704	150,522	178,651	188,712	197,099	250,672	260,764	277,686
PHYSICAL SCIENCES(TOTAL)	362,330	368,408	409,308	427,879	430,328	423,037	455,130	531,023
ASTRONOMY	24,385	19,929	26,485	19,759	27,540	27,728	29,941	31,153
CHEMISTRY	59,458	51,941	61,689	71,206	75,305	72,843	77,609	84,392
PHYSICS	264,610	285,229	306,114	317,268	308,753	316,627	344,523	404,499
OTHER PHYSICAL SCIENCES, NEC	13,877	11,309	15,020	19,646	18,730	5,839	3,057	10,979
ENVIRONMENTAL SCIENCES(TOTAL)	28,310	31,173	27,850	26,923	36,811	40,017	43,019	56,011
MATHEMATICAL SCIENCES(TOTAL)	39,840	40,003	36,669	37,554	41,599	52,957	53,408	61,447
MATHEMATICS (EXCLUDING COMPUTER SCIENCES)	NA	NA	NA	NA	NA	14,616	15,895	17,570
COMPUTER SCIENCES	NA	NA	NA	NA	NA	38,341	37,513	43,877
LIFE SCIENCES(TOTAL)	37,495	32,136	32,583	34,010	35,861	33,685	35,938	43,110
BIOLOGICAL (INCLUDES AGRICULTURAL SCIENCES)	28,519	25,150	26,333	26,671	29,169	24,202	27,071	32,720
MEDICAL SCIENCES	8,976	6,986	5,634	6,720	3,257	3,219	4,107	4,885
OTHER LIFE SCIENCES, NEC	NA	NA	616	619	3,435	6,264	4,760	5,505
PSYCHOLOGY(TOTAL)	4,776	4,195	5,611	1,486	1,426	896	848	304
SOCIAL SCIENCES(TOTAL)	1,522	2,815	7,335	4,258	6,983	169	330	795
ECONOMICS	NA	NA	138	20	NA	0	14	795
POLITICAL SCIENCE	NA	NA	319	201	76	0	0	0
SOCIOLOGY	NA	NA	537	91	46	169	316	0
OTHER SOCIAL SCIENCES, NEC	1,522	2,815	6,341	3,946	6,861	0	0	0
OTHER SCIENCES, NEC (TOTAL)	189	157	17,339	13,309	8,224	11,421	12,279	12,322

NOTE: NA - not available.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-49.

R&D EXPENDITURES IN UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY CHARACTER OF WORK: FISCAL YEARS 1953-75

(DOLLARS IN MILLIONS)

YEAR	TOTAL	BASIC RESEARCH		APPLIED RESEARCH		DEVELOPMENT	
		AMOUNT	PERCENT OF TOTAL	AMOUNT	PERCENT OF TOTAL	AMOUNT	PERCENT OF TOTAL
1953[1]	121	33	27.3	44	36.4	44	36.4
1954	141	39	27.7	51	36.2	51	36.2
1955[1]	180	49	27.2	65	36.1	66	36.7
1956[1]	194	51	26.3	71	36.6	72	37.1
1957[1]	240	65	27.1	86	35.8	89	37.1
1958	293	78	26.6	102	34.8	113	38.6
1959[1]	338	92	27.2	119	35.2	127	37.6
1960[1]	360	97	26.9	122	33.9	141	39.2
1961[1]	410	115	28.0	135	32.9	160	39.0
1962[1]	470	136	28.9	155	33.0	179	38.1
1963[1]	530	159	30.0	170	32.1	201	37.9
1964	629	191	30.4	202	32.1	236	37.5
1965[1]	629	208	33.1	204	32.4	217	34.5
1966	630	227	36.0	207	32.9	196	31.1
1967[1]	673	250	37.1	219	32.5	204	30.3
1968	719	276	38.4	231	32.1	212	29.5
1969[1]	725	275	37.9	210	29.0	240	33.1
1970	737	269	36.5	216	29.3	252	34.2
1971[1]	716	260	36.3	210	29.3	246	34.4
1972	763	250	32.8	225	29.5	288	37.7
1973	817	297	36.3	226	27.7	294	36.0
1974	865	300	34.7	267	30.9	298	34.5
1975	987	307	31.1	347	35.2	333	33.7

[1] Estimates derived from related information; no survey took place this year.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-50. SELECTED FINANCIAL CHARACTERISTICS OF SCIENTIFIC ACTIVITIES IN UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS: FISCAL YEARS 1973-75

(DOLLARS IN MILLIONS)

FEDERAL AGENCY AND GEOGRAPHIC DIVISION	NUMBER OF FFRDC'S	RESEARCH AND DEVELOPMENT EXPENDITURES														
		CURRENT EXPENDITURES												CAPITAL EXPENDITURES		
		TOTAL			BASIC RESEARCH			APPLIED RESEARCH			DEVELOPMENT					
		1975[1]	1974[2]	1973[3]	1975	1974	1973	1975	1974	1973	1975	1974	1973	1975	1974	1973
TOTAL	22	987	865	817	307	300	296	347	267	226	333	298	294	148	115	121
SPONSORING FEDERAL AGENCY:																
ATOMIC ENERGY COMMISSION	11	656	547	505	240	234	221	282	213	173	135	101	110	104	82	90
DEPARTMENT OF DEFENSE	4	163	159	156	3	4	6	42	36	35	119	119	115	5	3	2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2	121	113	111	19	16	25	23	18	18	79	79	69	17	14	14
NATIONAL SCIENCE FOUNDATION	5	46	46	45	46	46	45	0	0	0	0	0	0	22	16	15

[1] Included 4.0 million in non-Federal funds.
[2] Included 3.4 million in non-Federal funds.
[3] Included 4.1 million in non-Federal funds.

Note: Detail may not add to totals due to rounding.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-51.

R&D EXPENDITURES BY FEDERALLY FUNDED RES.&DEV. CENTERS IN DESCENDING ORDER OF AMOUNT BY FIELD OF SCIENCE: FISCAL YEAR 1975

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRONMENTAL	MATHEMATICS	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES	OTHER SCIENCES
UNITED STATES TOTAL	986,736	278,116	533,101	56,956	61,595	42,551	306	795	12,33
1 LAWRENCE LIVERMORE LAB	172,098	1,876	159,294	2,984	0	7,919	0	0	6
2 LOS ALAMOS SCIENTIFIC LAB	162,076	56,873	79,953	1,929	13,743	7,277	0	0	2,29
3 JET PROPULSION LABORATORY	120,054	55,012	32,026	7,120	12,245	13,651	0	0	0
4 ARGONNE NATL LABORATORY	119,783	30,684	47,318	6,493	1,612	9,476	0	0	0
5 LINCOLN LABORATORY	81,694	57,879	13,560	0	8,169	0	248	0	0
6 BROOKHAVEN NAT'L LAB	66,855	4,555	44,982	3,741	1,039	11,443	0	482	61
7 APPLIED PHYSICS LAB	63,344	30,176	13,916	9,544	2,447	7,261	0	0	0
8 LAWRENCE BERKELEY LAB	40,370	874	28,065	1,069	951	8,791	0	0	0
9 NATIONAL ACCELERATOR LAB	30,800	0	30,800	0	0	0	0	0	0
10 STFRD LINEAR ACCELRTR CTR	30,997	0	30,997	0	0	0	0	0	0
TOTAL 1ST 10 INSTS.	889,251	287,969	479,731	34,875	61,376	71,688	248	482	2,86
11 NATL CTR ATMOSPHERIC RES	22,957	0	2,133	20,824	0	0	0	0	0
12 PLASMA PHYSICS LABORATORY	21,356	0	21,356	0	0	0	0	0	0
13 KITT PEAK NAT'L OBSERVTRY	10,235	0	10,235	0	0	0	0	0	0
14 CENTER FOR NAVAL ANALYSES	10,094	0	0	0	0	0	0	213	9,88
15 APPLIED RES LABORATORY	8,063	8,063	0	0	0	0	0	0	0
16 AMES LABORATORY	7,688	1,927	5,663	0	98	0	0	0	0
17 NAT'L RADIO ASTRONOMY OBS	6,435	0	6,435	0	0	0	0	0	0
18 NAT'L ASTRON & IONOS CTR	5,386	0	2,032	1,354	0	0	0	0	0
19 CERRO TOLOLO INTER-AM OBS	3,373	0	3,273	0	0	0	0	0	0
20 OAK RIDGE ASSOCIATED UNIV	2,013	140	1,145	0	121	1,567	60	0	0
TOTAL 1ST 20 INSTS.	985,893	278,079	532,143	56,928	61,595	42,455	308	795	12,3
21 SPACE RADIATION EFFTS LAB	681	374	596	0	0	36	0	0	0
22 CAMBRIDGE ELECTRON ACCEL	162	0	162	0	0	0	0	0	0
TOTAL 1ST 22 INSTS.	986,736	278,116	533,101	56,956	61,595	42,551	306	795	12,3

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-52.

TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES BY FFRDC'S
IN DESCENDING ORDER OF AMOUNTS: FISCAL YEARS 1972-75

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING (1975)	TOTAL R&D EXPENDITURES 1975	1974	1973	1972	FEDERALLY FINANCED R&D EXPENDITURES 1975	1974	1973	1972
UNITED STATES TOTAL	986,736	865,098	816,923	763,562	982,698	861,716	812,854	758,331
1 LAWRENCE LIVERMORE LAB	172,098	147,319	136,497	128,096	172,089	147,311	136,455	128,086
2 LOS ALAMOS SCIENTIFIC LAB	162,078	130,905	120,238	107,002	162,078	130,905	120,238	107,002
3 JET PROPULSION LABORATORY	120,034	112,737	110,741	109,663	120,034	112,737	110,741	109,663
4 ARGONNE NATL LABORATORY	115,783	93,545	91,088	89,349	115,268	93,188	90,169	88,917
5 LINCOLN LABORATORY	81,894	76,636	83,247	69,570	81,894	76,636	83,247	69,570
6 BROOKHAVEN NAT'L LAB	66,855	56,070	53,677	49,776	66,645	55,961	53,612	49,731
7 APPLIED PHYSICS LAB	63,344	62,436	53,217	50,422	61,176	60,412	51,041	48,513
8 LAWRENCE BERKELEY LAB	40,370	36,498	36,258	35,375	39,782	36,466	36,258	35,375
9 NATIONAL ACCELERATOR LAB	35,800	28,900	19,200	9,213E	35,800	28,900	19,200	9,213E
10 STFRD LINEAR ACCELRTR CTR	30,997	27,592	25,072	25,004	30,997	27,592	25,049	25,004
TOTAL 1ST 10 INSTS.	889,253	774,678	729,235	673,470	885,763	772,108	726,010	671,074
11 NATL CTR ATMOSPHERIC RES	22,957	23,848	24,794	22,420	22,932	23,796	24,768	22,420
12 PLASMA PHYSICS LABORATORY	21,396	16,293	10,861E	8,353	21,228	15,864	10,790E	8,283
13 KITT PEAK NAT'L OBSERVTRY	10,235	8,867	9,148	7,588	10,235	8,867	9,148	7,215
14 CENTER FOR NAVAL ANALYSES	10,094	9,698	9,283	7,940	10,040	9,640	9,283	7,939
15 APPLIED RES LABORATORY	8,063	8,048	6,884	7,312	8,013	8,023	6,876	7,312
16 AMES LABORATORY	7,688	6,280	6,243	6,867	7,688	6,280	6,243	6,867
17 NAT'L RADIO ASTRONOMY OBS.	6,435	6,275	5,938	5,374	6,435	6,275	5,938	5,374
18 NAT'L ASTRON & IONOS CTR	3,386	2,924	2,200	2,319	3,386	2,924	2,200	2,319
19 CERRO TOLOLO INTER-AM OBS	3,373	4,022	3,311	2,259	3,373	4,022	2,984	1,942
20 OAK RIDGE ASSOCIATED UNIV	3,013	3,184	3,251	3,179	2,915	3,045	3,109	3,055
TOTAL 1ST 20 INSTS.	985,893	864,057	811,168	747,081	982,036	860,644	807,351	742,800
21 SPACE RADIATION EFFTS LAB	681	457	377	377	500	288	257	777
22 CAMBRIDGE ELECTRON ACCEL	162	584	2,154	2,518	162	584	2,154	2,518
TOTAL 1ST 22 INSTS.	986,736	865,098	813,699	750,476	982,698	861,716	809,762	747,095
TOTAL ALL OTHER INSTS.	0	0	3,224	13,087	0	0	3,092	11,236

NOTE: NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATES; THOSE FOLLOWED BY "I" ARE IMPUTATIONS; AND THOSE FOLLOWED BY "C" ARE CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

University-Administered Federally Funded Research and Development Centers

DEPARTMENT OF DEFENSE

Department of the Navy
- Applied Physics Laboratory (Johns Hopkins University).
- Applied Research Laboratory (Pennsylvania State University).
- Center for Naval Analyses (University of Rochester).

Department of the Air Force
- Lincoln Laboratory (Massachusetts Institute of Technology).

ATOMIC ENERGY COMMISSION

- Ames Laboratory (Iowa State University of Science and Technology).
- Argonne National Laboratory (University of Chicago and Argonne Universities Association).
- Brookhaven National Laboratory (Associated Universities, Inc.).
- Cambridge Electron Accelerator (Harvard University and Massachusetts Institute of Technology).
- Lawrence Radiation Laboratory, Berkeley and Livermore (University of California).
- Los Alamos Scientific Laboratory (University of California).
- Fermi National Accelerator Laboratory (Universities Research Association).
- Oak Ridge Associated Universities
- Plasma Physics Laboratory (Princeton University).
- Stanford Linear Accelerator Center (Stanford University).

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

- Jet Propulsion Laboratory (California Institute of Technology).
- Space Radiation Effects Laboratory (College of William and Mary).

NATIONAL SCIENCE FOUNDATION

- Cerro-Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.).
- National Astronomy and Ionosphere Center (Cornell University).
- Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.).
- National Center for Atmospheric Research (University Corporation for Atmospheric Research).
- National Radio Astronomy Observatory (Associated Universities, Inc.).

APPENDIX C

Reproduction of Survey Form

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Universities and Colleges (includes aggregate data from 540 institutions)	00
University-Administered Federally Funded Research and Development Centers (FFRDC's) (includes data from 22 centers)	93

NSF FORM 411 (Oct. 1975)

REPRODUCTION OF SURVEY FORM
NATIONAL SCIENCE FOUNDATION
Washington, D.C. 20550

FORM APPROVED
OMB No. 99-R0279

SURVEY OF SCIENTIFIC AND ENGINEERING
EXPENDITURES AT UNIVERSITIES AND COLLEGES, FY 1975
(Current and Capital Expenditures for Research,
Development, and Instruction in the Sciences and Engineering)

Organizations are requested to complete and return this form to:

NATIONAL SCIENCE FOUNDATION
1800 G Street, N.W.
Washington, D.C. 20550
Attn: UNISG

This form should be returned by November 30, 1975. Your cooperation in returning the survey questionnaire promptly is very important.

Financial data are requested for your institution's 1975 fiscal year.

All financial data requested on this form should be reported in thousands of dollars, for example, an expenditure of $25,342 should be rounded to the nearest thousand dollars and reported as $25.

Where exact data are not available, estimates are acceptable.

Please correct if name or address has changed

(Includes aggregate data from 540 universities and colleges but excludes 22 university-administered FFRDC'S)

Include data for branches and all organizational units of your institution, such as medical schools and agricultural experiment stations. Also include hospitals or clinics owned, operated, or controlled by universities, and integrated operationally with the clinical programs of your medical schools. Exclude data for Federally Funded Research and Development Centers (FFRDC's). A separate questionnaire is included in this package if your institution administers an FFRDC. If you have any questions, please contact Jim Hoehn (202-282-7790).

Please note in space below:
(1) Any suggestions to improve the design of the survey questionnaire; (2) any suggestions to improve the instructions.

(Attach additional sheets, if necessary.)

NAME OF PERSON WHO PREPARED THIS SUBMISSION

TELEPHONE:
AREA | EXCHANGE | NUMBER | EXTENSION

TITLE

DATE

Please check and correct if necessary the name and address of your institution shown on the mailing label.

ITEM 1. CURRENT EXPENDITURES FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT (R&D) IN THE SCIENCES AND ENGINEERING, BY SOURCE OF FUNDS AND TYPE OF ACTIVITY, FY 1975 (Include indirect costs)

ITEM 1. INSTRUCTIONS

Separately budgeted research and development includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. Include expenditures from both the unrestricted and restricted current fund accounts. Exclude training grants, public service grants, demonstration projects, etc.

Include in lines a through f only restricted funds. Restricted funds include those monies which were restricted by the sponsor as to the specific operating purpose for which they could be expended. The determination of restricted or unrestricted (institutional) funds reflects the ability of your institution to change the purpose for which the funds are expended without further authorization from the source of the monies. The restricted funds category of Federal, State, or local governments includes all R&D expenditures from funds received through appropriations, grants, or contracts from these sources and restricted by them as to use. The funding source is determined by the organization (e.g., State government, foundation, etc.) that designates the money for research and development even if your organization determines which projects are to be funded. Include reimbursed indirect costs.

Include in line g any funds your institution was free to designate for R&D. The sources of these funds may include: (a) unrestricted or general purpose State or local government appropriations, (b) general purpose grants from industry, foundations, or other outside sources, (c) tuition and fees, (d) endowment income, (e) unreimbursable indirect costs associated with R&D financed by outside organizations.

Source of funds		(1) Total R&D expenditures	(2) Basic research	(3) Applied research	(4) Development
		(Thousands of dollars)	(Percent of column one)		
a. Federal Government	1110	$ 2,283,979	74.0 %	22.6 %	3.4 %
b. State government	1120	336,445	**Basic research** is directed toward an increase of knowledge; it is research where the primary aim of the *investigator* is a fuller knowledge or understanding of the subject under study rather than a practical application thereof.	**Applied research** is directed toward the practical application of knowledge. The definition of applied research differs from basic research chiefly in terms of the objectives of the *investigator*.	**Development** is the systematic use of knowledge directed toward the design and production of useful prototypes, materials, devices, systems, methods, or processes. It does *not* include quality control or routine product testing.
c. Local government	1130	15,428			
d. Private foundations and voluntary health agencies	1140	165,587			
e. Industry	1150	111,560			
f. All other outside sources	1160	90,178			
g. Institutional funds	1170	389,959			
h. Total (sum of a through g)	1100	$ 3,393,136	70.6 %	25.1 %	4.3 %

ITEM 2 (next page) INSTRUCTIONS

Total and federally financed basic research (Columns 3 and 4) by field of science are optional. This information is needed by NSF and others interested in the health of basic research. If you are unable to provide this information for FY 1975, please indicate its feasibility for FY 1976.

Yes _____ No _____

If "no", please explain _____

Enclosed is a departmental data worksheet which may be useful in collecting basic research and departmental research from department chairpersons. NSF will provide as many data worksheets as needed.

ITEM 2. TOTAL AND FEDERALLY FINANCED EXPENDITURES FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT, BY FIELD OF SCIENCE, FY 1975

Field of science	Illustrative disciplines		Thousands of dollars: Total	Thousands of dollars: Federal
a. ENGINEERING	Aeronautical, agricultural, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, nuclear, petroleum, bio-and-biomedical, energy, textile, architecture	1410	$ 380,522	$ 259,524
b. PHYSICAL SCIENCES (TOTAL)		1420	350,340	284,664
(1) Astronomy	Astrophysics, optical and radio, x-ray, gamma-ray, neutrino	1421	26,610	19,524
(2) Chemistry	Inorganic, organo-metallic, organic, physical, analytical, pharmaceutical, polymer science (exclude biochemistry)	1422	121,337	92,721
(3) Physics	Acoustics, atomic and molecular, condensed matter, elementary particles, nuclear structure, optics, plasma	1423	173,290	149,879
(4) Other	Used for multidisciplinary projects within physical sciences and for disciplines not requested separately	1424	29,103	22,540
c. ENVIRONMENTAL SCIENCES	ATMOSPHERIC SCIENCES: Aeronomy, solar weather modification, meteorology, extra-terrestrial atmospheres GEOLOGICAL SCIENCES: Engineering geophysics, geology, geodesy, geomagnetism, hydrology, geochemistry, paleomagnetism, paleontology, physical geography, cartography, seismology, soil sciences OCEANOGRAPHY: Chemical, geological, physical, marine geophysics, marine biology, biological oceanography	1430	255,033	180,566
d. MATHEMATICAL SCIENCES (TOTAL)		1440	84,931	64,868
(1) Mathematics	Algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology	1441	39,609	31,120
(2) Computer sciences	Design, development, and application of computer capabilities to data storage and manipulation, information science	1442	45,322	33,748
e. LIFE SCIENCES (TOTAL)		1450	1,895,008	1,237,497
(1) Biological sciences	Anatomy, biochemistry, biophysics, biogeography, ecology, embryology, entomology, genetics, immunology, microbiology, nutrition, parasitology, pathology, pharmacology, physical anthropology, physiology, botony, zoology	1451	604,251	432,265
(2) Agricultural	Agricultural chemistry, agronomy, animal science, conservation, dairy science, plant science, range science, wildlife	1452	381,953	112,175
(3) Medical	Anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics, ophthamology, preventive medicine and community health, psychiatry, radiology, surgery, veterinary medicine, dentistry, pharmacy	1453	837,130	641,507
(4) Other	Used for multidisciplinary projects within life sciences	1454	71,674	51,550
f. PSYCHOLOGY	Animal behavior, clinical, educational, experimental, human development and personality, social	1460	79,880	61,193
g. SOCIAL SCIENCES (TOTAL)		1470	249,929	139,785
(1) Economics	Econometrics, international, industrial, labor, agricultural, public finance and fiscal policy	1471	56,112	27,081
(2) Political science	Regional studies, comparative government, international relations, legal systems, political theory, public administration	1472	28,694	11,953
(3) Sociology	Comparative and historical, complex organizations, culture and social structure, demography, group interactions, social problems and welfare, theory	1473	68,713	45,083
(4) Other	History of science, cultural anthropology, linguistics, socio-economic geography, research in education	1474	96,410	55,668
h. OTHER SCIENCES	To be used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible; do *not* include nonscience activities such as English or music in this survey	1480	97,493	55,882
i. TOTAL (SUM of a through h) Check to insure that column totals are identical with data reported in item 1.		1400	3,393,136	2,283,979

ITEM 3. CURRENT EXPENDITURES FOR INSTRUCTION AND DEPARTMENTAL RESEARCH IN GRADUATE DEGREE GRANTING INSTITUTIONS IN THE SCIENCES AND ENGINEERING, BY FIELD OF SCIENCE, FY 1975 (Direct expenditures only)

OMIT ITEM 3 IF YOUR INSTITUTION DOES NOT GRANT A DOCTORATE OR MASTER'S DEGREE IN THE SCIENCES OR ENGINEERING.

ITEM 3. INSTRUCTIONS

Include the salaries of department heads, faculty members, secretaries and technicians; office and laboratory supplies; and expenditures for degree credit instructional programs in science and engineering subjects. The time spent in supervising the thesis work of graduate students should be reported as an expenditure for instruction, not for departmental research. Departmental research (nonsponsored research) is "personal" or "faculty" research supported by General Funds of the department as a specifically assigned, departmentally planned, or mutually understood part of the faculty member's total activity.

Field of science		Total instruction and departmental research (Thousands of dollars) (1)	Departmental research as a percent of col. 1 - (No decimals) (2)
a. Engineering	1510	$ 451,124	11.0 %
b. Physical sciences	1520	436,262	12.2 %
c. Environmental sciences	1530	121,749	12.0 %
d. Mathematical sciences	1540	295,457	10.9 %
e. Life sciences	1550	1,755,022	12.7 %
f. Psychology	1560	205,259	10.3 %
g. Social sciences	1570	898,825	10.6 %
h. Other sciences, NEC	1580	112,683	10.0 %
i. Total (sum of a through h)	1500	$ 4,355,381	11.6 %

ITEM 4. CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, BY FIELD OF SCIENCE, FY 1975

ITEM 4. INSTRUCTIONS

Report funds for facilities which were in process or completed during FY 1975. Expenditures for administration buildings, steam plants, residence halls, and other such facilities should be excluded unless utilized principally for research, development, or instruction in engineering or in the sciences. Land costs should be excluded. Exclude small equipment items in your current fund account costing approximately $200 to $500 or less, as determined by institutional policy.

Facilities and equipment expenditures include the following: (a) fixed equipment such as built-in equipment and furnishings; (b) movable scientific equipment such as oscilloscopes, pulse-height analyzers; (c) movable furnishings such as desks; (d) architect's fees, site work, extension of utilities, and the building costs of service functions such as integral cafeterias and bookstores of a facility; (e) facilities constructed to house separate components such as medical schools and teaching hospitals; and (f) special separate facilities used to house scientific apparatus such as accelerators, oceanographic vessels, and computers.

Field of science		Thousands of dollars		
		Total (1)	Federal Government (2)	All other sources (3)
a. Engineering	1710	$ 118,461	$ 64,092	$ 54,369
b. Physical sciences	1720	81,171	19,072	62,099
c. Environmental sciences	1730	35,208	5,880	29,328
d. Mathematical sciences	1740	25,962	5,161	20,801
e. Life sciences	1750	658,534	166,859	491,675
f. Psychology	1760	11,530	2,249	9,281
g. Social sciences	1770	50,008	2,790	47,218
h. Other sciences, NEC	1780	37,557	4,172	33,385
i. Total (sum of a through h)	1700	$ 1,018,431	$ 270,275	$ 748,156

APPENDIX C.

NSF FORM 411 (Oct. 1975)

FORM APPROVED
OMB No. 99-R0279

REPRODUCTION OF SURVEY FORM
NATIONAL SCIENCE FOUNDATION
Washington, D.C. 20550

SURVEY OF SCIENTIFIC AND ENGINEERING
EXPENDITURES AT UNIVERSITIES AND COLLEGES, FY 1975
(Current and Capital Expenditures for Research,
Development, and Instruction in the Sciences and Engineering)

Organizations are requested to complete and return this form to:

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Attn: UNISG

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Financial data are requested for your institution's 1975 fiscal year.

All financial data requested on this form should be reported in thousands of dollars; for example, an expenditure of $25,342 should be rounded to the nearest thousand dollars and reported as $25.

Where exact data are not available, estimates are acceptable.

Please correct if name or address has changed

(Aggregate data from 22 university-administered FFRDC's)

Include data for branches and all organizational units of your institution, such as medical schools and agricultural experiment stations. Also include hospitals or clinics owned, operated, or controlled by universities, and integrated operationally with the clinical programs of your medical schools. Exclude data for Federally Funded Research and Development Centers (FFRDC's). A separate questionnaire is included in this package if your institution administers an FFRDC. If you have any questions, please contact Jim Hoehn (202 282 7790).

Please note in space below:
(1) Any suggestions to improve the design of the survey questionnaire; (2) any suggestions to improve the instructions.

(Attach additional sheets, if necessary.)

NAME OF PERSON WHO PREPARED THIS SUBMISSION

TELEPHONE: AREA | EXCHANGE | NUMBER | EXTENSION

TITLE

DATE

Please correct if necessary the name and address of your institution shown on the mailing label.

ITEM 1. CURRENT EXPENDITURES FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT (R&D) IN THE SCIENCES AND ENGINEERING, BY SOURCE OF FUNDS AND TYPE OF ACTIVITY, FY 1975 (Include indirect costs)

ITEM 1. INSTRUCTIONS

Separately budgeted research and development includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. Include expenditures from both the unrestricted and restricted current fund accounts. Exclude training grants, public service grants, demonstration projects, etc.

Include in lines a through f only restricted funds. Restricted funds include those monies which were restricted by the sponsor as to the specific operating purpose for which they could be expended. The determination of restricted or unrestricted (institutional) funds reflects the ability of your institution to change the purpose for which the funds are expended without further authorization from the source of the monies. The restricted funds category of Federal, State, or local governments includes all R&D expenditures from funds received through appropriations, grants, or contracts from these sources and restricted by them as to use. The funding source is determined by the organization (e.g., State government, foundation, etc.) that designates the money for research and development even if your organization determines which projects are to be funded. Include reimbursed indirect costs.

Include in line g any funds your institution was free to designate for R&D. The sources of these funds may include: (a) unrestricted or general purpose State or local government appropriations, (b) general purpose grants from industry, foundations, or other outside sources, (c) tuition and fees, (d) endowment income, (e) unreimbursable indirect costs associated with R&D financed by outside organizations.

Source of funds	(1) Total R&D expenditures (Thousands of dollars)	(2) Basic research (Percent of column one)	(3) Applied research (Percent of column one)	(4) Development (Percent of column one)
a. Federal Government 1110	$ 982,698	31.2 %	35.1 %	33.7 %
b. State government 1120	1,152	**Basic research** is directed toward an increase of knowledge; it is research where the primary aim of the *investigator* is a fuller knowledge or understanding of the subject under study rather than a practical application thereof.	**Applied research** is directed toward the practical application of knowledge. The definition of applied research differs from basic research chiefly in terms of the objectives of the *investigator*.	**Development** is the systematic use of knowledge directed toward the design and production of useful prototypes, materials, devices, systems, methods, or processes. It does *not* include quality control or routine product testing.
c. Local government 1130	223			
d. Private foundations and voluntary health agencies 1140	655			
e. Industry 1150	243			
f. All other outside sources 1160	546			
g. Institutional funds 1170	1,219			
h. **Total (sum of a through g)** 1100	$ 986,736	31.2 %	35.1 %	33.7 %

ITEM 2. (next page) INSTRUCTIONS

Total and federally financed basic research (Columns 3 and 4) by field of science are optional. This information is needed by NSF and others interested in the health of basic research. If you are unable to provide this information for FY 1975, please indicate its feasibility for FY 1976.
Yes _____ No _____

If "no", please explain _____

Enclosed is a departmental data worksheet which may be useful in collecting basic research and departmental research from department chairpersons. NSF will provide as many data worksheets as needed.

ITEM 2. TOTAL AND FEDERALLY FINANCED EXPENDITURES FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT, BY FIELD OF SCIENCE, FY 1975

Field of science	Illustrative disciplines		Thousands of dollars	
			Total	Federal
a. ENGINEERING	Aeronautical, agricultural, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, nuclear, petroleum, bio-and-biomedical, energy, textile, architecture	1410	$ 278,116	$ 277,686
b. PHYSICAL SCIENCES (TOTAL)		1420	533,101	531,023
(1) Astronomy	Astrophysics, optical and radio, x-ray, gamma-ray, neutrino	1421	31,153	31,153
(2) Chemistry	Inorganic, organo-metallic, organic, physical, analytical, pharmaceutical, polymer science (exclude biochemistry)	1422	84,862	84,392
(3) Physics	Acoustics, atomic and molecular, condensed matter, elementary particles, nuclear structure, optics, plasma	1423	406,086	404,499
(4) Other	Used for multidisciplinary projects within physical sciences and for disciplines not requested separately	1424	11,000	10,979
c. ENVIRONMENTAL SCIENCES	ATMOSPHERIC SCIENCES: Astronomy, solar weather modification, meteorology, [illegible] atmospheres GEOLOGICAL SCIENCES: Engineering geophysics, geology, geodesy, geomagnetism, hydrology, geochemistry, paleomagnetism, [illegible] geography, cartography, seismology, soil [illegible] OCEANOGRAPHY: Chemical, geological, physical, marine geophysics, marine biology, biological [illegible]	1430	56,958	56,011
d. MATHEMATICAL SCIENCES (TOTAL)		1440	61,595	61,447
(1) Mathematics	Algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology	1441	17,659	17,570
(2) Computer sciences	Design, development, and application of computer capabilities to data storage and manipulation, information science	1442	43,936	43,877
e. LIFE SCIENCES (TOTAL)		1450	43,531	43,110
(1) Biological sciences	Anatomy, biochemistry, biophysics, biogeography, ecology, embryology, entomology, genetics, immunology, microbiology, nutrition, parasitology, pathology, pharmacology, physical anthropology, physiology, botony, zoology	1451	32,908	32,720
(2) Agricultural	Agricultural chemistry, agronomy, animal science, conservation, dairy science, plant science, range science, wildlife	1452	0	0
(3) Medical	Anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics, ophthamology, preventive medicine and community health, psychiatry, radiology, surgery, veterinary medicine, dentistry, pharmacy	1453	4,963	4,885
(4) Other	Used for multidisciplinary projects within life sciences	1454	5,660	5,505
f. PSYCHOLOGY	Animal behavior, clinical, educational, experimental, human development and personality, social	1460	306	304
g. SOCIAL SCIENCES (TOTAL)		1470	795	795
(1) Economics	Econometrics, international, industrial, labor, [illegible] public finance and fiscal policy	1471	795	795
(2) Political science	Regional studies, comparative government, international relations, legal systems, political theory, public administration	1472	0	0
(3) Sociology	Comparative and historical, complex organizations, culture and social structure, demography, group interactions, social problems and welfare, theory	1473	0	0
(4) Other	History of science, cultural anthropology, linguistics, socio-economic geography, research in education	1474	0	0
h. OTHER SCIENCES	To be used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible, do not include nonscience activities such as English or music in this survey	1480	12,334	12,322
i. TOTAL (SUM of a through h) Check to insure that column totals are identical with data reported in item 1.		1400	986,736	982,698

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ITEM 3. CURRENT EXPENDITURES FOR INSTRUCTION AND DEPARTMENTAL RESEARCH IN GRADUATE DEGREE GRANTING INSTITUTIONS IN THE SCIENCES AND ENGINEERING, BY FIELD OF SCIENCE, FY 1975 (Direct expenditures only)

OMIT ITEM 3 IF YOUR INSTITUTION DOES NOT GRANT A DOCTORATE OR MASTER'S DEGREE IN THE SCIENCES OR ENGINEERING

ITEM 3. INSTRUCTIONS

Include the salaries of department heads, faculty members, secretaries and technicians; office and laboratory supplies; and expenditures for degree credit instructional programs in science and engineering subjects. The time spent in supervising the thesis work of graduate students should be reported as an expenditure for instruction, not for departmental research. Departmental research (nonsponsored research) is "personal" or "faculty" research supported by General Funds of the department as a specifically assigned, departmentally planned, or mutually understood part of the faculty member's total activity.

Field of science		Total instruction and departmental research (Thousands of dollars) (1)	Departmental research as a percent of col. 1 (No decimals) (2)
a. Engineering	1510	$	%
b. Physical sciences	1520		%
c. Environmental sciences	1530		%
d. Mathematical sciences	1540		%
e. Life sciences	1550		%
f. Psychology	1560		%
g. Social sciences	1570		%
h. Other sciences, NEC	1580		%
i. Total (sum of a through h)	1500		

ITEM 4. CAPITAL EXPENDITURES FOR SCIENTIFIC AND ENGINEERING FACILITIES AND EQUIPMENT FOR RESEARCH, DEVELOPMENT, AND INSTRUCTION, BY FIELD OF SCIENCE, FY 1975

ITEM 4. INSTRUCTIONS

Report funds for facilities which were in process or completed during FY 1975. Expenditures for administration buildings, steam plants, residence halls, and [illegible] ther such facilities should be excluded unless utilized principally for research, development, or instruction in engineering or in the sciences. Land costs should be excluded. Exclude small equipment items in your current fund account costing approximately $200 to $500 or less, as determined by [illegible] stitutional policy.

Facilities and equipment expenditures include the following: (a) fixed equipment such as built-in equipment and furnishings; (b) movable scientific equipment such as oscilloscopes, pulse-height analyzers; (c) movable furnishings such as desks; (d) architect's fees, site work, extension of utilities, and the building costs of service functions such as integral cafeterias and bookstores of a facility; (e) facilities constructed to house separate components such as medical schools and teaching hospitals; and (f) special separate facilities used to house scientific apparatus such as accelerators, oceanographic vessels, and computers.

Field of science		Thousands of dollars		
		Total (1)	Federal Government (2)	All other sources (3)
a. Engineering	1710	$ 36,844	$ 36,844	$ 0
b. Physical sciences	1720	93,241	93,241	0
c. Environmental sciences	1730	5,552	5,552	0
d. Mathematical sciences	1740	6,777	6,777	0
e. Life sciences	1750	5,175	5,175	0
f. Psychology	1760	0	0	0
g. Social sciences	1770	0	0	0
h. Other sciences, NEC	1780	396	396	0
i. Total (sum of a through h)	1700	$ 147,985	$ 147,985	$ 0

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